Company profile - SODAMCO ............................................ P.2
Company profile - Weber ................................................... P.4
Training ................................................................................ P.6
Technical services ................................................................ P.7
Renders ................................................................................ P.8
Product selector .................................................................... P.10
Renders and paints ............................................................. P.15
Cases and solutions ............................................................. P.33
Technical recommendations ............................................... P.50
Technical data sheets .......................................................... P.57
Tools .................................................................................... P.98
Accessories .......................................................................... P.100
Color charts ......................................................................... P.101
Founded in Lebanon in 1985, SODAMCO manufactures and markets quality construction chemical products particularly suitable to the building standards and specific climate conditions in more than seven countries of the Middle East and the Gulf.

SODAMCO entities are recognized as “Construction Chemicals Experts” in the region, after 26 years of continuous growth.

Our Locations

<table>
<thead>
<tr>
<th>Country</th>
<th>Entity</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lebanon</td>
<td>SODAMCO S.A.L. - Hosrayel (Jbeil) - Factory</td>
<td>1985</td>
</tr>
<tr>
<td></td>
<td>SODAMCO Holding Lebanon - Beirut</td>
<td>1996</td>
</tr>
<tr>
<td>Syria</td>
<td>SODAMCO Syria Ltd. - Damascus - commercial office</td>
<td>2010</td>
</tr>
<tr>
<td></td>
<td>SODAMCO S.A.L. - Dubai</td>
<td>1998</td>
</tr>
<tr>
<td></td>
<td>SODAMCO Holding - Masdar city Branch - Abu Dhabi</td>
<td>2010</td>
</tr>
<tr>
<td>Qatar</td>
<td>SODAMCO Qatar - Doha - Factory</td>
<td>2002</td>
</tr>
<tr>
<td>KSA</td>
<td>SODAMCO KSA - Jeddah - Factory</td>
<td>2007</td>
</tr>
<tr>
<td></td>
<td>SODAMCO KSA - Riyadh - Factory</td>
<td>2009</td>
</tr>
<tr>
<td>Jordan</td>
<td>ATTADAMUNIA for Construction Industries - Factory - Amman</td>
<td>2008</td>
</tr>
<tr>
<td>Kuwait</td>
<td>SODAMCO Kuwait</td>
<td>2008</td>
</tr>
<tr>
<td>Oman</td>
<td>SODAMCO Muscat</td>
<td>2011</td>
</tr>
</tbody>
</table>

Our Product Lines

- Façade & External Insulation System
- Decorative & Technical Flooring
- Structural, Watertight & Sound Insulation
- Noise Reduction & Soundproofing

Our Mission

- Develop products that meet customer satisfaction in every market
- Develop long term relationship with customers.
- Produce locally in markets with high potential to offer better service level to customers.
- Gain and maintain leadership positions in relevant markets and segments.
- Capitalize on attracting and retaining the best staff and experts in our field.
- Promoting growth and a challenging and safe work environment.

Our Standards

SODAMCO Weber strives to meet its customers requirements by closely monitoring their needs.

SODAMCO Weber’s products are developed through extensive research & development and are subject to strict quality control procedures. The finished products are in conformity with European Norms (EN), BS and ASTM standards, allowing the company to obtain in Lebanon in 1999 the ISO 9002:1994 International Quality Certificate and in 2004 the ISO 9001: 2000, and in 2005 the 9001: 2000 certificate in the UAE, in 2008 in KSA and in 2009 in Qatar, SODAMCO is also an environmentally oriented company, having been certified in 2009 with the ISO 14001: 2004 in the UAE.
WEBER, WORLD LEADER OF PREMIXED MORTARS DEVELOPS SOLUTIONS FOR BUILDING CONSTRUCTION AND RENOVATION IN 46 COUNTRIES.

WEBER SOLUTIONS IN 46 COUNTRIES

- Solutions for façades
- Solutions for fixing tiles and natural stones
- Solutions for flooring
- Solutions for interior walls
- Solutions based on technical mortars
- Lightweight expanded clay aggregates
- Solutions for masonry

WEBER WORLDWIDE PRESENCE

THE WEBER BRAND EMBRACES THE DIFFERENT COMPANIES THAT OPERATE UNDER ITS BANNER

- A large network of point of sales supported by more than 200 production units in 46 countries.

WEBER HISTORY

1900 • Both companies Weber et Broutin were founded in France in the early 20th century. George Weber and Jean-Baptiste Broutin made gypsum and lime-based façade renders in their factories in Paris. They merged in 1927.  
1946 • After World War 2, the company expanded into the reconstruction market.  
1970 • It became part of the Poliet group in 1970, and gradually expanded.  
1982 • In 1982 Weber et Broutin started to develop on European markets.  
1990 • Weber accelerates its European expansion: Italy, Germany, Eastern Europe...  
1996 • Weber joined the Saint-Gobain group. The company became Saint-Gobain Weber.  
1998 • Take over of Quartzolit and Concreto in South America. At the same time, Asia became Weber’s second development zone outside Europe, with operations in Thailand, China, and Malaysia.  
2008 • Saint-Gobain acquired Maast Group, extending the presence of Weber to Nordic countries and Baltic, whilst reinforcing it in Germany, Benelux, Central and Eastern Europe, Russia and China.  
2009 • Saint-Gobain Weber finalized a joint-venture agreement with SODAMCO in Middle East, extending the operations to Lebanon, Syria, Jordan, Kuwait, Saudi Arabia, UAE, and Qatar, and opening good opportunities of development in this region.

WEBER COMMITMENTS

INNOVATIVE OFFER OF SOLUTIONS AND SERVICES BASED ON THE WINNING COMBINATION OF A DEEP LOCAL KNOWLEDGE AND AN INTERNATIONAL EXPERIENCE

PROXIMITY WITH OUR CUSTOMERS
- A network of flexible and close-by plants to make our products & services more accessible  
- A strong knowledge of our customers job to better answer their needs  
- An innovation process which involves our customers to guarantee efficiency, quality and competitiveness

USEFUL INNOVATION
- Solutions rather than products supported by relevant services  
- Non Worry products to increase comfort and productivity on the jobsites  
- Polyvalent solutions to simplify logistics and selection  
- Strong training programs for our customers on our new solutions

ENVIRONMENTAL FOCUSED APPROACH
- Product made of safe components  
- Limited road traffic, thanks to our network of plants  
- Contribution to energy savings, supported by a full range of façade insulation systems  
- Industrial process with low energy and water consumption
SODAMCO Weber training objectives

Why?

- Quality finishing and application are imperative for a successful façade.

- It is of vital importance that your project is completed successfully and to the satisfaction of all concerned parties.

- The application of façade renders and finishes requires skilled and experienced applicators. The end product has an impact on the reputation of all stakeholders (specifier, supplier, contractor, ... etc).

SODAMCO Weber has developed dedicated training centers to perform in house training in the application and theoretical of our façade solutions.

For whom?

- For the specifiers and consulting engineers
  Power point and video presentations will be offered as follows:
  1- Render protected external wall insulation.
  2- Modern rendering using monocouche through colored render.
  This can be organized at your premises and at your convenience to benefit as many of your colleague as possible.

- For recommended applicators
  Three full days courses of practical “hands on” training on monocouche techniques spray application and ETICS systems available at SODAMCO Weber training center. These trainings are designed for application team (6 to 10 persons maximum) as well as their foremen and supervisors.

- A number of recommended applicators are nominated by SODAMCO Weber for projects throughout the region.
- These applicators have been trained by SODAMCO Weber and have experience in successfully applying SODAMCO Weber materials.

- SODAMCO Weber continues to support and develop the skills and knowledge of the recommended applicators through ongoing training and regular site visits.

SODAMCO Weber has built a reputation for its technical support, both at design stage and on site during the application process. Well-qualified specification advisers are available in the field to provide important design and detailing advice to specifier and contractor alike, while experienced technical sales people support the building teams as the project progresses. While these teams can assist when problems occur, their main purpose is to address issues vital to the successful completion of a project before problems occur, and assist all involved in reaching the goal of doing things right from the first time.
### SODAMCO Weber product range

#### Monocouche renders

**weber.pral F**
One coat through-colored monocouche decorative mineral cement-based render suitable for machine and manual application.

**weber.pral F LW**
One coat through-colored monocouche decorative mineral cement-based render suitable for machine and hand application suitable onto lightweight blocks and higher density substrates.

#### Textured thin coat renders

- **Organo-Mineral**
  - weber.pas prime
    Ready to use primer before applying weber.pas deco
  - weber.pas deco
    High performance mineral silicate-based decorative finish:
    - weber.pas deco 2 mm

- **Synthetic**
  1- Decofaçade.300 PR
    Acrylic water based primer.
  2- Decofaçade.310 MX
    Acrylic based decorative coating profile finish.
  3- Decofaçade.330 RC
    Synthetic decorative coating roller texture.
  4- Decofaçade.340 HE
    Highly elastic and weather resistant decorative coating roller texture.
  5- Decofaçade.350 SX
    Acrylic based decorative coated sanded finish.

#### External insulation system

**weber.therm OM**
Light weight external thermal insulation composite system (ETICS) incorporating thin coat polymer and mineral renders and fiber glass mesh reinforcement.

#### Protective anti-carbonation coating

**weber.cote beton**
Semi-acrylic protective and decorative anti-carbonation treatment for concrete.

#### Exposed aggregate finish

**Mineralite**
Exposed aggregate cement-based rendered finish.
<table>
<thead>
<tr>
<th>Texture</th>
<th>Fine Scrap</th>
<th>Ashlar</th>
<th>Profile</th>
<th>Roller Texture</th>
<th>Granular</th>
<th>Smooth</th>
<th>Shiny Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finish</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monocouche</td>
<td>weber.pral F</td>
<td>weber.pral F</td>
<td>weber.pral F</td>
<td>weber.pral F LW</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thin Coat Render</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Decofaçade.310 MX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Decofaçade.330 RC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Decofaçade.340 HE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>weber.pas deco</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Decofaçade.350 SX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>External Insulation System</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>weber.therm OM finish with weber.pas deco</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anti-carbonation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exposed Aggregate render</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>**Mineralite</td>
</tr>
</tbody>
</table>

** Mineralite is available in GCC countries
* Decofaçade is available in Near East countries
## Main product selector according to substrate

<table>
<thead>
<tr>
<th>Substrate</th>
<th>weber.pral F</th>
<th>weber.pas deco</th>
<th>Decofaçade 310 MX Decofaçade 330 RC Decofaçade 340 HE Decofaçade 350 SX</th>
<th>weber.therm OM (ETICS)</th>
<th>weber.cote beton (anti-carbonation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium-dense block with good key</td>
<td>direct application</td>
<td>with Premix.key coat (SRC-1) and Premix.plaster hand (SP-1)</td>
<td>with Premix.key coat (SRC-1) and Premix.plaster hand (SP-1)</td>
<td>direct application</td>
<td>with Premix.key coat (SRC-1) and Premix.plaster hand (SP-1)</td>
</tr>
<tr>
<td>Medium-dense block with poor key</td>
<td>with Premix.key coat (SRC-1)</td>
<td>with Premix.key coat (SRC-1) and Premix.plaster hand (SP-1)</td>
<td>with Premix.key coat (SRC-1) and Premix.plaster hand (SP-1)</td>
<td>direct application</td>
<td>with Premix.key coat (SRC-1) and Premix.plaster hand (SP-1)</td>
</tr>
<tr>
<td>Smooth concrete</td>
<td>with Premix.key coat (SRC-2)</td>
<td>with Premix.key coat (SRC-2) and Premix.plaster hand (SP-1)</td>
<td>with Premix.key coat (SRC-2) and Premix.plaster hand (SP-1)</td>
<td>direct application</td>
<td>direct application</td>
</tr>
<tr>
<td>Brick with raked joints</td>
<td>direct application</td>
<td>with Premix.key coat (SRC-1) and Premix.plaster hand (SP-1)</td>
<td>with Premix.key coat (SRC-1) and Premix.plaster hand (SP-1)</td>
<td>direct application</td>
<td>with Premix.key coat (SRC-1) and Premix.plaster hand (SP-1)</td>
</tr>
<tr>
<td>Brick with flush joints</td>
<td>with Premix.key coat (SRC-1)</td>
<td>with Premix.key coat (SRC-1) and Premix.plaster hand (SP-1)</td>
<td>with Premix.key coat (SRC-1) and Premix.plaster hand (SP-1)</td>
<td>direct application</td>
<td>with Premix.key coat (SRC-1) and Premix.plaster hand (SP-1)</td>
</tr>
<tr>
<td>Light weight blocks</td>
<td>with Premix.key coat (SRC-LW)</td>
<td>with Premix.key coat (SRC-LW) and Premix.plaster hand (SP-1)</td>
<td>with Premix.key coat (SRC-LW) and Premix.plaster hand (SP-1)</td>
<td>direct application</td>
<td>with Premix.key coat (SRC-LW) and Premix.plaster hand (SP-1)</td>
</tr>
<tr>
<td>Masonry with good key</td>
<td>direct application</td>
<td>with Premix.key coat (SRC-1) and Premix.plaster hand (SP-1)</td>
<td>with Premix.key coat (SRC-1) and Premix.plaster hand (SP-1)</td>
<td>direct application</td>
<td>with Premix.key coat (SRC-1) and Premix.plaster hand (SP-1)</td>
</tr>
<tr>
<td>Masonry with poor key</td>
<td>with Premix.key coat (SRC-1)</td>
<td>with Premix.key coat (SRC-1) and Premix.plaster hand (SP-1)</td>
<td>with Premix.key coat (SRC-1) and Premix.plaster hand (SP-1)</td>
<td>direct application</td>
<td>with Premix.key coat (SRC-1) and Premix.plaster hand (SP-1)</td>
</tr>
<tr>
<td>Painted substrate</td>
<td>see p.42-43</td>
<td>see p.46-47 Poor key and existing paint</td>
<td>direct application</td>
<td>direct application</td>
<td>direct application</td>
</tr>
<tr>
<td>Cement board panel</td>
<td>no application</td>
<td>direct application</td>
<td>direct application</td>
<td>direct application</td>
<td>direct application</td>
</tr>
</tbody>
</table>

* For the color references see pages 102-108
Renders and Paints

Monocouche renders .................................................................................. P.16
Ashlar monocouche renders .................................................................. P.20
Textured thin coat renders ................................................................. P.21
External insulation systems ..................................................................... P.22
Mineralite .................................................................................................. P.30
Anti-carbonation paint .......................................................................... P.31
Monocouche renders

Monocouche is a single-coat cement-based through-colored render with superior aesthetic, protection, and durability features. Monocouche decorative renders are available in a variety of colors to suit the taste of owners and architects, and provide the necessary protection against rain and other weathering elements.

Monocouche is supplied as a ready-mix dry material, to which a controlled amount of water is added during its application using a rendering and plastering machine.

After application of the single coat material (typical thickness from 15-25 mm), monocouche is scraped to provide a natural rough appearance resembling a natural stone finish. Being cement based and colored in the mass, monocouche is well known for a strong color stability, earning it the reputation of aging better than any other decorative render.

Another strong asset of monocouche renders is that they are directly applied onto block work (standard and lightweight) and concrete, hence require no plaster layer underneath, nor a paint layer on top.

Benefits

- Natural stone-like appearance
- Water and weather resistant durable decorative render
- One coat application
- Low maintenance
- Time saving by machine application
- Quality controlled for consistency and color
- Factory blended
Ashlar with monocouche

Replicating stonework within weber.pr F can be achieved by cutting recessed joints into the finished render with special tools. Vertical, horizontal and radial recesses can be formed using square, V and chamfered cutting profiles. Designs may be executed with both vertical and horizontal cuts to resemble stone block work. Deep horizontal profiles provide shadow lines to replicate traditional ‘ashlar’. A number of examples are shown below.

Textured thin coat renders

Synthetic resin dispersions are now by far the most widely used type of wall and façade thin coating. As binders, they contain synthetic resins and a special selection of graded fillers, and are variable in various colors and finishing aspects. The Deco façade organic thin coat renders are available in granular, roll, and profile texture and have a limited elasticity. The Deco façade 340 HE has an exceptionally higher elasticity, hence the name “Highly Elastomeric”.

On the other hand, silicate coating feature breathability (high vapor permeability), durability (UV resistance), a low sensitivity to dust, good water repellency, and the ability to cover the micro cracks on existing substrates.
Silicate coatings can be applied directly onto lime or cement plaster and on ETICS insulation system to give a richer mineral aspect which is waterproof.

The silicate weber.pas deco combines the advantages of synthetic resin and silicate dispersions: the organic content of acrylic resin provides sufficient elasticity that allows bridging the micro cracks that may appear on the underlying cementitious substrate; however, it is much harder than a purely synthetic resin coating. Once applied, silicates form a structured surface and due to their excellent water repellency, dust and dirt can be washed off much easier.

Benefits

- Flexible performance and extensive range of colors
- Water resistant
- Application over existing or difficult substrates
- Breathable, washable
- Economical
- UV resistant
External insulation systems

External Thermal Insulation Composite Systems (ETICS) improves the building insulation performances while protecting and decorating the façade.

Insulating walls externally has many advantages in comparison with classic internal insulation or insulation within cavity walls. ETICS brings an active insulation by stopping the heat flow through the slabs and around openings like windows and doors.

It brings all the benefits of good thermal insulation of a construction like energy savings for heating or cooling the building and therefore contributes to a sustainable environment with lower energy consumptions and CO2 emissions.

In addition, by locating the insulation on the outside, cold bridging and interstitial condensation are eliminated at the intersection of floors and walls partitions. An envelope is provided all around the walls protecting masonries against thermal shocks and direct aggression of the weather.

In new-built, combined with simple single skin construction, it makes a cost effective solution for fast track programs.

In renovation, the insulation thickness is not constrained by the limits of the room space and therefore can accommodate all current and future demands for thermal performance and refurbishment can be carried out with little disruption to the tenant.

Moreover, ETICS brings attractive decoration of the façade and is well adapted to all types of architectural designs (residential or non residential, individual houses and high rise buildings) providing possibilities of the modern renders aspects and large variety of colors.

A composite system which associates:

- Boards with low thermal conductivity fixed and glued onto the wall.
- A basecoat reinforced by a fiber mesh which brings mechanical resistance and weatherproof.
- A thin decorative coating, breathable with mineral aspect and long lasting various colors.

Benefits

- Performing and cost effective Thermal Insulation for new built and renovation
- Easy to install in renovation, saving living space and avoiding disturbance of owners
- Adapted to all types of buildings with large choice of decorative finishing
- Comfort for inhabitants in all seasons
- Protection of walls against thermal shocks and prevention for cracks, corrosion and water penetration
- No risk of condensation limiting mould inside the house

Advantages of external insulation

The option of insulating walls externally has many advantages and easily outperforms the other options in thermal performance.

The insulation thickness is not constrained by the limits of the room space or by the cavity and therefore can accommodate all current and future demands for thermal performance.

Cold bridging and interstitial condensation are eliminated and refurbishment can be carried out with little disruption to the tenant. In new-built, insulating in this position can be combined with simple and reliable single skin construction, providing cost effective, fast track programs and attractive façades.

By locating the insulation on the outside, the supporting wall construction falls in to the warm or cool zone and is thus kept warm/cool and dry. This means that the supporting wall structure contributes more to the insulation ‘tally’ and in the case of masonry structures, will act as a heat - cold store.
External insulation systems
Thermal transmittance

In order to define a building’s overall thermal performance, a calculation must be made that accounts for the combination of the individual components which, when built together, form the whole. For example, a wall construction may comprise an internal plaster on lightweight concrete blockwork as an internal skin, which could then be separated from the outer leaf of brickwork by a cavity. The thermal calculation should make allowances for all of the constituent materials, including mortar joints and any thermal bridges such as wall ties, as well as the surface/air interfaces.

The measure, which defines this overall performance, is the Thermal Transmittance, known as the U-value. It is calculated from the summation of the reciprocal of all the individual thermal resistances. The U-value may be defined as the rate of heat transfer through a construction from air to air.

It is therefore important when calculating U-values to know the build-up of the wall construction with the associated properties of each constituent material and their associated thickness.

---

Thermal Insulation Values

Building materials have a variety of different properties that work together to define the overall performance of the building construction as a whole. Thermal performance of the construction is no different.

Any construction material will have an associated thermal conductivity, Lambda (λ) value sometimes known as the K-value. It defines the amount of heat units that can be transmitted in a unit time through a unit thickness of material over a unit area. A low (λ) value indicates a good thermal insulator.

From the examples given above, Expanded Polystyrene is a high performance thermal insulator yet copper is a thermal conductor and will transfer heat readily.

<table>
<thead>
<tr>
<th>Material</th>
<th>Thermal Conductivity (λ) W/MK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air</td>
<td>0.0024</td>
</tr>
<tr>
<td>Brick</td>
<td>1.31</td>
</tr>
<tr>
<td>Earth dry</td>
<td>1.5</td>
</tr>
<tr>
<td>Fiber insulating board</td>
<td>0.048</td>
</tr>
<tr>
<td>Plaster board</td>
<td>0.17</td>
</tr>
<tr>
<td>Polystyrene expanded</td>
<td>0.039</td>
</tr>
<tr>
<td>Straw insulation</td>
<td>0.09</td>
</tr>
<tr>
<td>Copper</td>
<td>400</td>
</tr>
</tbody>
</table>

---
### EPS insulation boards

Expanded Polystyrene foam board insulation is a versatile plastic foam insulant offering excellent insulation properties at a low cost with a wide range of available thicknesses and densities. EPS can be used in a variety of residential, commercial, and industrial applications such as foundation walls, roofs, pipes, or cold storage.

### Features and benefits of EPS

- Can be used in new built and renovation
- Reduces air movements in wall
- Stops dew point/moisture condensation in wall
- Blocks air infiltration
- Breathable material and facings
- Available in standard foil facing, special order plastic laminate, and high density un-faced
- Construction handling durability
- Levels new and old substrates
- Compatible with wood, metal, vinyl, hardboard, brick, and other sidings
- Chemically inert
- Made from natural and recycled material

### Calculating U-value - EPS 80 mm

<table>
<thead>
<tr>
<th>Nr.</th>
<th>Layer</th>
<th>Thickness (D in m)</th>
<th>Lambda</th>
<th>D/Lambda</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Heat transfer inside</td>
<td>0.0015</td>
<td>8</td>
<td>0.125</td>
</tr>
<tr>
<td>2</td>
<td>Brickwall</td>
<td>0.25</td>
<td>0.7</td>
<td>0.0021</td>
</tr>
<tr>
<td>3</td>
<td>PS 15 board</td>
<td>0.08</td>
<td>0.038</td>
<td>2.1053</td>
</tr>
<tr>
<td>4</td>
<td>Render &amp; finishing plaster outside</td>
<td>0.008</td>
<td>0.87</td>
<td>0.0092</td>
</tr>
</tbody>
</table>

heat resistance $R = 1/K$ 2.917

U-Value $U = 1/R$ 0.34

### Mineral wool board insulation

Mineral wool board insulants are made from basalt rock and steel slag. This combination results in a non-combustible product which gives it excellent fire resistance properties. Mineral wool is a water repellent yet vapor permeable material.

Mineral wool is the ideal fire protection material since it is both non-combustible (meeting the ISO 1182 standard), and does not conduct heat. In other words, it does not burn nor does it propagate fire. It can resist temperatures above even 1000°C.

The thermal conductivity of mineral wool façade insulation boards is $\lambda = 0.034$ W/mK (0.0196 BTU/ft/h°F) at 10 °C (50 °F) mean temperature.

### Features and benefits of Mineral Wool

- Easy to install
- Non-combustible
- Can be fabricated / laminated
- Excellent thermal resistance
- Low moisture absorption
- Good compressive resistance
- Non-corrosive
- Chemically inert
- Made from natural and recycled material
- Acoustic insulation

### Calculating U-value - Mineral Wool 80 mm

<table>
<thead>
<tr>
<th>Nr.</th>
<th>Layer</th>
<th>Thickness (D in m)</th>
<th>Lambda</th>
<th>D/Lambda</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Heat transfer inside</td>
<td>0.0015</td>
<td>8</td>
<td>0.125</td>
</tr>
<tr>
<td>2</td>
<td>Brickwall</td>
<td>0.25</td>
<td>0.7</td>
<td>0.0021</td>
</tr>
<tr>
<td>3</td>
<td>Mineral wool board</td>
<td>0.08</td>
<td>0.033</td>
<td>2.4242</td>
</tr>
<tr>
<td>4</td>
<td>Render &amp; finishing plaster outside</td>
<td>0.008</td>
<td>0.87</td>
<td>0.0092</td>
</tr>
</tbody>
</table>

heat resistance $R = 1/K$ 3.236

U-Value $U = 1/R$ 0.31
Mineralite

Mineralite is a cement-based final render coat, finished to expose a variety of durable natural aggregates including granites and glass. It is supplied as a blend of dry materials which requires only the addition of clean water to provide, when finished, a highly durable rendered surface. It is available in a range of natural aggregate colors.

Mineralite is to be applied by trained and approved applicators only.

Benefits

• Aspect of natural stone
• A highly durable finish: resistant to extremes of climate
• Very low maintenance
• Provides a dense, weatherproof and decorative surface with low water absorption.
• Allows the substrate to breathe
• Factory blended using carefully selected raw materials

Anti-carbonation

Anti-carbonation refers to the ability of a coating to protect the substrate from attack of carbon oxides. The presence of carbon dioxide and water in the substrate can lead to a mildly acidic solution which can attack concrete, masonry and steel reinforcing bars. The coating prevents carbon dioxide coming into contact with the masonry substrate thanks to a very low permeability of the coating.

Benefits

• Protects substrates from carbonation
• Excellent weathering resistance
• Highly resistant to freeze / thaw cycling
• Elastic nature with crack bridging properties
• Allows structure to breathe
• Range of colors available
• Easy to clean
• Water based and non-toxic
• Single pack and easy to apply
How to apply scraped monocouche onto smooth concrete .......... P.34
How to apply scraped monocouche on dense concrete blocks or clay bricks ................................................................. P.36
How to apply scraped monocouche on lightweight blocks AAC (Aerated Autoclaved Concrete) ................................................. P.38
How to perform “ashlar” finish with monocouche ...................... P.40
How to apply a coating over existing paint ................................ P.42
How to insulate single-skin construction ..................................... P.44
How to apply render over existing render .................................. P.46
How to refurbish decaying concrete façades ................................. P.48

Cases and Solutions
How to apply scraped monocouche onto smooth concrete

Smooth concrete

- Little, no suction or no mechanical key
  In order that the render bonds to the substrate it will require both suction and a good key coat.
  On the concrete surfaces we could face the mould release agent that could affect the adherence of the render.

- Crack and debonds
  Smooth concrete may offer the worst of all conditions for all rendering, with the possibility of residual traces of release agents and both poor key coat and low suction.

Apply a key coat, Premix.SRC-2 and weber.pral F

Product required

- Premix.SRC-2
- weber.pral F
- Admix 240 LTX

Preparation

Ensure all areas are free from any residue that may interfere with the bond of materials to be applied. If any traces of mould release agent on the concrete surfaces, remove it by high pressure water.

Key coat

Apply Premix.SRC-2, 2-3 mm thick approximately 1m² at a time, texture immediately to leave with a deep, heavy stipple key. Treat all elevations to be rendered. Or apply a 2 to 3 mm thick slurry bond coat of weber.pral F mixed with 1 volume of Admix 240 LTX to 4 volumes of water per bag of weber.pral F. Cure at least three days before monocouche application.

Render

Apply manually or mechanically weber.pral F as the finish decorative monocouche.
How to apply scraped monocouche on dense concrete blocks or clay bricks

Concrete blocks

As the density of block work increases the finished surfaces often have much smoother faces. The alignment of the wall should be straight and stable without any small or big holes.

Clay bricks

Brickwork with the cement mortar joints raked back will provide sufficient mechanical key for rendering.

Apply weber.pral F

Product required

- weber.pral F

Preparation

Ensure that all areas are free from any residue that may interfere with the bond of materials to be applied. Fill holes with Premix SP-1 or weber.pral F. In hot weather, substrate should be humidified 2 hours before application.

Spray directly a layer of 15 mm thickness of weber.pral F than level out. Once set to the touch, scrape the render with short tooth scraper TK 08 (see page 98). Minimum thickness after scraping is 10 mm.
How to apply scraped monocouche on lightweight blocks AAC (Aerated Autoclaved Concrete)

**Lightweight blocks**

Lightweight AAC blocks are almost 9 times bigger than red bricks and 1/3 lighter than red bricks. Usually these blocks have low density (around 500 Kg/m³) bonded with a special adhesive mortar. They can be dusty and have water suction.

**Product required**

- weber.pral F LW

**Preparation**

Ensure all areas are free from any residue that may interfere with the bond of materials to be applied.

Humidify the substrate to clean the dust and regulate porosity.

**Render**

Apply by machine (or hand) weber.pral F LW monocouche as the finish decorative render.

Note that by applying the render injunction between concrete and lightweight blocks use a fiber mech-clothes to prevent from cracks.
Ashlar masonry

Ashlar masonry is a type of building construction that uses primarily rectangular blocks of stone. Using techniques dating back thousands of years, ‘ashlar’ masons can create walls, arches and buildings through correct placement and varied sizes of rectangular blocks.

Ashlar masonry is seen in many ancient buildings, and still plays a major part in construction in some parts of the world.

Ashlar in modern buildings

In modern buildings, depending on the building architecture, it is possible to perform the same ancient ‘ashlar’ effect, when using a colored render like monocouche.

Ashlar effect using weber.pral F

Apply weber.pral F to the minimum thickness of the render with regard to the exposure conditions. In most exposure conditions the depth of profile of the ‘ashlar’ will be varied between 5 and 10 mm. Which cut is chosen it is important to maintain at least 15 mm of render at the lowest point. In areas of severe exposure the recommended minimum coverage at any point should be increased to 20 mm. The total finished thickness of render should not exceed 25 mm in any application.

While the render is still green (i.e. set but not yet full hardened) immediately after scraping finishing mark out ‘ashlar’ cuts using chalk line. Place tomber battens so the point of the ‘ashlar’ cutting tool TK 11, TK 20 or TAT (see tools pages 98-99) will remove the chalk line.

Run the ‘ashlar’ cutting tool along the batten until the specified depth of the cut is achieved. Immediately after cutting, brush using a clean soft bristle brush to remove dust.

Using this ‘ashlar’ technique the traditional stone masonry effect can be achieved without using the expensive and difficult stonework.
How to apply a coating over existing paint

### Dusty old paint

With aging, the paint becomes dusty and not resistant.

### Discoloration during time

Under UV exposure pigments will be destroyed and will damage the aesthetic aspect of the façade.

### Paints peeling, humidity, freezing, sun, wind

Severe weather may damage the polymeric structure of the paint and lead to peeling and debonding.

---

Apply weber.pas deco or Decofaçade render

### Product required

- Decofaçade.300 PR, Decofaçade.310 MX, Decofaçade.330 RC, Decofaçade.310 MX
- Decofaçade.340 HE, Decofaçade.350 SX
- weber.pas prime, weber.pas deco

### Preparation

- In case of old dusty paint, remove as much as possible with high water pressure, 120 bar.
- If not well bonded then remove completely the paint with a special paint remover or by burning and apply primers and finish with Decofaçade or weber.pas.
- If only discoloration but resistant paint, apply the primers and finish with Decofaçade or weber.pas.
How to insulate single-skin construction

**Thick materials required**
Single-skin solid wall construction, requires very thick materials to provide a good thermal performance. It takes space and the construction becomes heavy.

**Poor resistance to weather**
Even with thick masonry blocks in single skin construction, the need for a protective and decorative cladding is there to achieve proper resistance to weather.

**Poor sealing**
Without careful detailing at openings, water can track around windows and door frames etc. bypassing seals at openings. Good quality and reliable seals are paramount. Simple gun-applied sealants used with cavity construction are often poorly applied. If they fail for whatever reason with single-skin construction, the construction is immediately exposed.

Use weber.therm OM External Insulation System

**Product required**
- All the components of weber.therm OM system (see page 9).

Single skin construction in a thickness suitable for bearing purposes only.

weber.therm OM external wall insulation system provides thermal insulation, protects the structure and offers several external finish options.
How to apply render over existing render

**Render coats are applied in successive layers**

Render coats are applied in successive layers in decreasing thicknesses and strengths. Topcoats therefore may be relatively weak. It is difficult to assess the strength of existing materials and their bond strength to previous layers.

**Stresses from additional materials**

Additional materials put increasing stresses on the bond interfaces of existing materials.

**Dirty deposits**

Dirty deposits accumulated over a period of time can form a weak intermediate layer that interferes with the development of the bond of newly applied render.

**Poor key**

Dirty deposits accumulated over a period of time can form a weak intermediate layer that interferes with the development of the bond of newly applied render.

Choose your decorative solution and prepare the substrate accordingly

**Product required**

- **Decorative solutions**
  - Decofaçade.300 PR, Decofaçade.310 MX, Decofaçade.330 RC, Decofaçade.340 HE, Decofaçade.350 SX
  - weber.pas prime, weber.pas deco
  - Premix.SRC-1, weber.pral F

**Solution 1**

**Substrate preparation**
Providing the existing substrate is sound, well adhered over all its area, not substantially greater than 19 mm in thickness, stronger than the materials to be applied and not painted or coated in any way, power wash dirty areas.

**Decorative solutions**
Provide a key with weber.pas prime or Decofaçade.300 PR and apply a finished thin texture with Decofaçade or weber.pas deco.

**Solution 2**

**Surface preparation**
If the above criteria cannot be established, remove existing materials.

**Decorative solutions**
Provide a key with Premix.SRC-1 and apply a full specification thickness render with monocouche weber.pral F.
How to refurbish decaying concrete façades

Corroded rebar affects concrete cover
Over a period of time, carbonation will affect concrete cover to reinforcing steel and lead to its corrosion. Unattended this will in time make the structure unsafe and eventually uninhabitable. This effect is especially associated with construction where there is insufficient concrete cover to reinforcing steel.

Inadequate patch repairs
Simple cutting out and repair of decayed areas can leave uneven surfaces, and even after fairing coats are used, buildings retain their original, often dated, appearance.

Need to prevent further corrosion
Even when repaired, the process of deterioration will continue in other areas if no action is taken to protect the structure from the elements.

Low thermal insulation
Old structures that have degraded over time often have low levels of thermal insulation when compared to modern standards and are more likely to suffer from related condensation and damp problems.

Repair damage and finish with anti-carbonation paint

Product required
- Concrete repair products
  - Conrep.331 TX
  - Conrep.332 FR
  - Conrep.360 FFR
  - Conrep.370 PF
- Anti-carbonation paint
  - weber.cote beton

Assessment
Assess and cut out areas of damaged reinforced concrete. Assess structural strength and stability.

Repair
Clean steel and repair with Conrep.370 PF, Conrep.331 TX or Conrep.332 FR or Conrep.360 FFR concrete repair system from SODAMCO Weber. Each situation will need to be addressed on an individual basis. In the first instance contact SODAMCO Weber technical staff for advice.

Finish
After curing time of the conrep products, apply the weber.cote beton anti-carbonation paint in two layers in order to protect the substrate from any bad weather conditions.
Technical recommendations

Direct applied decorative renders

Some common rules need to be applied when using Decorative Renders to ensure a successful application and a finish that will last well into the future.

Substrate

The main characteristics for a suitable substrate for Renders are as follows:

1. **Strength** - the substrate, including any joints in the masonry, should be no weaker than the rendering material used.

2. **Suction** - Good adhesion of a cement-based render to the substrate relies on adequate suction in the substrate. Too much suction will cause the render to dry too quickly affecting the bonding. Low suction substrates will not offer enough capillary action to achieve a good bond.

3. **Key** - to support the render a substrate material must have an open, raised texture or pre-engineered surface to allow the render to penetrate and lock into the surface.

The most common substrate types to be found are:

1. **Block work**
   - medium density block work is normally manufactured with an open or engineered key that is suitable for direct rendering. The key can be enhanced by raking of the mortar joints.
   - lightweight block work has a high suction that must be controlled in order to achieve a good bond. The wall should be evenly sprayed in a controlled way with a mist of water and coated with Premix.SRC-LW rush coat which will also enhance the key.

2. **Concrete**
   - Usually finished smooth so commonly has no mechanical key and has minimal suction. The concrete should either be bush-hammered to expose the surface and/or coated with Premix.SRC-2 rush-coat to provide a key for the render application.
   - Concrete curing agents should be completely removed from the surface as these will impair the adhesion of the render.
Substrate preparation

- The surface must be clean, sound and dry; free from oil, loose material, dust, organic growth, salts and anything that may impair the bond.
- Alignment - check the level of the substrate; as a guide, a deviation of 5 mm under a 2 m straight edge should be achievable.
- Make good any bad areas of wall that may not be within tolerance and allow to dry. Use a render i.e. Premix.SP-1 to level the substrate as appropriate.
- Apply clean water to the substrate 2 hours before application and again just before starting. Avoid saturation as this can lead to lime bloom especially in dark colors.
- Protection from direct sun during application is essential. We recommend shade netting is erected to envelope the structure to be rendered and also left in place during the curing period.
- All holes should be drilled, windows, doors, soffits and facias etc. should be in place before.

Preparation of the job site

To emphasise some of the points made above plus some other essential rules when using decorative renders particularly in hot climates, please note as follows:

- Scaffolding required at each level, independently tied to allow for continuous application. Sufficient boards are required for safe and secure working.
- Shade netting - to prevent application in direct sunlight. Should be left in place during the curing period.
- Water for mixing - should be clean and pure water and as cool as possible. Measures must be taken to store water in an insulated tank and out of direct sun to avoid heating of the water.
- After application other trades should be aware that repairs to decorative renders often result in differences of appearance and often visible on completion. Protect the finished render where appropriate.

Crack control

Ways to avoid cracking in render:
1. Good bonding between the render and the substrate (as above)
2. Appropriate design details
3. Substrate preparation
4. Curing of the substrate - allow 28 days before applying render
5. Curing of the render - for 2-3 days following the day of application with a fine mist of clean water
6. Movement joints
   - Relieve stresses in the structure
   - Not a requirement of the render alone
   - Should continue through to the render surface from the relief joints detailed in the construction
7. Control the panel size
   - Ensure correct quantity of masons according to the area to be applied
   - If not possible then work to a straight edge; cut a straight ‘ashlar’ groove at the junction with the adjoining panel

8. Glass fibre mesh reinforcement
   - Easy to cut and fix and can prevent problems later
   - In-lay appropriate fibre glass mesh into the wet render at positions of high stress
   - At the corners of openings, windows and doors etc.
   - At junctions of differing materials

Forming angles

- For a natural finish use metal or timber rails with a chamfered edge angled at 45˚C; remove after 1-3 days and apply the return face - must be used when Ashlar detail is specified.
- UPVC angle beads with Y section can be used to form angles with scraped finish renders
- Stainless steel beads and profiles can be used but with scraped finish these will be visible.

Movement joints

- Joints in the substrate for reasons of building movement or expansion must be carried through to the surface of the render.
- Examples of movement joints are shown in the following pictures
Architectural detailing

Correct detailing is important to protect the render; the following are some considerations common to every application.

• At the base of walls
  - To protect the render from rising ground water and rain splashes causing permanent and unsightly damage.
  - If there is a DPC (damp proof concrete) in the block work then the render should not be applied across it.
  - Either stop the render at the DPC by using a drip bead or if installing a stone plinth or another dense material below the DPC, then ensure the DPC provides a clear break between render and plinth.

• Window sills
  - To shed rain water away from the render face and to avoid staining the recommended overhang of sills is minimum 50 mm
  - The sill should extend approx 100 mm beyond the reveal.

• Parapet walls
  - Because of their exposed position, parapet walls should preferably be capped with a coping stone that overhangs back and front faces by 50 mm and angled away from the render face to shed water onto the roof drainage system.
  - If the horizontal surface of the parapet is rendered there is a risk of staining down the render face and damage by weathering of the exposed surface.
**COMPOSITION**
White cement and limestone, selected aggregates, organic additives, waterproof additives, mineral pigments.

**AVAILABLE COLORS**
72 colors.

**SCOPE OF USE**
Weatherproof and decorative render for the façades of detached houses, blocks of flats, office and industrial buildings. Suitable for creating stone piers, cornices, sills, windows or door recesses, which can be enhanced by using “ashlar” cuts. Exterior and interior walls.

**SUITABLE SUBSTRATE**
For weatherproofing and decoration:
- Dense concrete blocks and clay bricks
- Concrete
- Precast concrete blocks
- Sand-cement renders
- Existing mineral render
For any other substrate, please contact SODAMCO Weber.

**COVERAGE**
Masonry: 22 to 25 kg/m²
Concrete or undercoat: 12 to 15 kg/m²

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powder density</td>
<td>1.4</td>
</tr>
<tr>
<td>Paste density</td>
<td>1.775</td>
</tr>
<tr>
<td>Hardened density</td>
<td>1.680</td>
</tr>
</tbody>
</table>

**TEST**
Density of set mortar
Mxural strength
Dynamic modulus of elasticity
Capillarity
Adhesion to concrete blocks
Adhesion to brick
Adhesion to rough concrete
Adhesion to smooth concrete with slurry bond coat
Fire rating

<table>
<thead>
<tr>
<th>TEST</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density of set mortar</td>
<td>1.6 to 1.7</td>
</tr>
<tr>
<td>Mxural strength</td>
<td>2.5 N/mm²</td>
</tr>
<tr>
<td>Dynamic modulus of elasticity</td>
<td>8000 to 10 000 N/mm²</td>
</tr>
<tr>
<td>Capillarity</td>
<td>1 g/dm³.mn½</td>
</tr>
<tr>
<td>Adhesion to concrete blocks</td>
<td>&gt; 0.7 N/mm²</td>
</tr>
<tr>
<td>Adhesion to brick</td>
<td>&gt; 0.6 N/mm²</td>
</tr>
<tr>
<td>Adhesion to rough concrete</td>
<td>&gt; 0.7 N/mm²</td>
</tr>
<tr>
<td>Adhesion to smooth concrete with slurry bond coat</td>
<td>&gt; 0.4 N/mm²</td>
</tr>
<tr>
<td>Fire rating</td>
<td>M0 (non combustible)</td>
</tr>
</tbody>
</table>

These values were obtained in laboratory conditions. They may be modified by site conditions.

**TECHNICAL SERVICES**
SODAMCO Weber’s Customer Services Department has a team of experienced advisors available to provide on-site advice both at the specification stage and during application. Detailed specifications can be provided for specific projects or more general works. Site visits and on-site demonstrations can be arranged on request.

**PACKAGING**
25 Kg bag

**PRODUCT BENEFITS**
- Scraped (stone aspect)
- Weatherproof: protection of walls and façades
- A vast range of colors coping with most architectural requirements
- Suitable for application by wet mortar pump

**SUBSTRATE PREPARATION**
Dense concrete blocks or clay bricks
- Remove contamination, dirt, laitance...
- Fill any open joints and voids by dubbing out with weber.pral F according to good working practices.
In hot weather and dry winds, wet the sub-strate before application in order to prevent premature drying of the render.
Concrete and render
- In all cases, remove any contamination and level out.
- In hot weather and dry winds, wet the sub-strate by spraying water. Wait until the film of water has disappeared before applying the render.
Smooth concrete
- Roughen the surface by mechanical scabbling.
- Or apply Premix Rush-Coat SRC-2 with heavy stipple finish.

**RECOMMENDATIONS**
The creation of design features with a thicker coat of render is possible on selected areas such as stone piers, cornices at roof and storey height, or at ground level. The following thicknesses should not be exceeded:
- 30 mm on masonry (block work and new render)
- 20 mm on concrete or existing render.
For thicker coats please contact SODAMCO Weber.

**PRECAUTIONS**
Onto horizontal surfaces.
- On wood or metal surfaces
- On gypsum-based materials or paint.
- At ground level in order to avoid staining.
On design features such as parapet or similar, the render should be protected.
INSTRUCTIONS FOR USE

Mix weber.pral F with 3.75 to 4.25 liters of water per 25 kg bag for 5 to 10 minutes in a mortar pump. The mixing rate and mixing time must be constant to avoid shade variations after drying.

Mortar pump:
To pump mixed mortar at a pressure of 24 bars, the pump should be set at a pressure of 14 to 15 bars with water. These adjustments correspond to standardized equipment with 2 pipes of 13.5 m length and 35 mm diameter, and one pipe of 12.5 m length and 25 mm diameter.

APPLICATION CHARACTERISTICS

- Time between each pass: 1 to 3 days maximum.
- Period of protection against rain water: 3 to 8 hours.
- Application thickness:

<table>
<thead>
<tr>
<th>Substrates</th>
<th>Masonry</th>
<th>Concrete or undercoat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scraped</td>
<td>before scraping: 15 mm</td>
<td>before scraping: 10 mm</td>
</tr>
</tbody>
</table>

FOR DECORATING CONCRETE AND MASONARY

Scraped finish

Spray directly a layer of 10 mm thickness onto the prepared substrate and then level out. As soon as it has set to the touch, 1 to 5 hours after the application, scrape the render with the short tooth scraper TK08 (see p.98). The minimum thickness should be 6 mm throughout after scraping. Next day lightly brush to remove dust and spray with a light mist of water 2 times per day for 2 days.

FOR DECORATIVE WATERPROOFING MORTAR

Scraped finish

Spray directly a layer of 15 mm thickness onto the prepared substrate and then level out. As soon as it has set to the touch, scrape the render with a short tooth scraper TK 08 (see p.98). The minimum thickness should be 10 mm throughout after scraping.
weber.pral F LW

COMPOSITION
Made of hydraulic binders, additives as hydrophobic and water retention agents and pigments.

AVAILABLE COLORS
72 colors.

SCOPE OF USE
Weatherproof and decorative render for the façades of detached houses, blocks of flats, lightweight blocks, office and industrial buildings. Suitable for creating stone piers, cornices, sills, windows or door recesses, which can be enhanced by using “ashlar” cuts. Exterior and interior walls.

SUITABLE SUBSTRATE
For weatherproofing and decoration:
- Lightweight blocks AAC 500 kg / m³, dense concrete blocks and clay bricks
- Concrete
- Precast concrete blocks
- Sand-cement renders
- Existing mineral render
For any other substrate, please contact SODAMCO Weber

COVERAGE
Masonry: 22 to 25 kg/m²
Concrete or undercoat: 12 to 15 kg/m²

PACKAGING
25 Kg bag

SUBSTRATE PREPARATION
- Remove contamination, dirt, laitance...
- Fill any open joints and voids by dubbing out with weber.pral F LW according to good working practices.

In hot weather and dry winds, wet the substrate before application in order to prevent premature drying of the render.

ON DENSE CONCRETE BLOCKS OR CLAY BRICKS
Scraped finish
Spray directly a layer of 15 mm thickness onto the prepared substrate and then level out. As soon as it has set to the touch, scrape the render with a short smooth scraper TK 08 (see page 98). The minimum thickness should be 10 mm throughout after scraping.

TECHNICAL DATA SHEETS

CHARACTERISTICS

<table>
<thead>
<tr>
<th>TEST</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density of set mortar</td>
<td>1.6 to 1.7</td>
</tr>
<tr>
<td>Flexural strength</td>
<td>≥ 5 N/mm²</td>
</tr>
<tr>
<td>Dynamic modulus of elasticity</td>
<td>8 000 to 10 000 N/mm²</td>
</tr>
<tr>
<td>Capillarity</td>
<td>1 g/dm²·mm½</td>
</tr>
<tr>
<td>Adhesion to concrete blocks</td>
<td>&gt; 0.7 N/mm²</td>
</tr>
<tr>
<td>Adhesion to brick</td>
<td>&gt; 0.6 N/mm²</td>
</tr>
<tr>
<td>Adhesion to rough concrete</td>
<td>&gt; 0.7 N/mm²</td>
</tr>
<tr>
<td>Adhesion to smooth concrete with slurry bond coat</td>
<td>&gt; 0.4 N/mm²</td>
</tr>
</tbody>
</table>

These values were obtained in laboratory conditions. They may be modified by site conditions.

PRECAUTIONS
On horizontal surfaces
- On wood or metal surfaces
- On gypsum-based materials or paint
- At ground level in order to avoid staining

On design features such as parapet or similar, the render should be protected.

PRODUCT BENEFITS
- Scraped (stone aspect)
- Weatherproof: protection of walls and façades
- A vast range of colors coping with most architectural requirements.
- Formulated for lightweight AAC blocks application

RECOMMENDATIONS
The creation of design features with a thicker coat of render is possible on selected areas such as stone piers, cornices at roof and storey height, or at ground level. The following thicknesses should not be exceeded:
- 30 mm on masonry (block work and new render)
- 20 mm on concrete or existing render.

For thicker coats please contact SODAMCO Weber
- weber.pral F LW can also be applied by hand.
Mix weber.pral F LW with 3.75 to 4.25 liters of water per 325kg bag for 5 to 10 minutes in a mortar pump. The mixing rate and mixing time must be constant to avoid shade variations after drying.

Mortar pump:
To pump mixed mortar at a pressure of 24 bars, the pump should be set at a pressure of 14 to 15 bars with water. These adjustments correspond to standardized equipment with 2 pipes of 13.5 m length and 35 mm diameter, and one pipe of 12.5 m length and 25 mm diameter.

APPLICATION CHARACTERISTICS

- Time between each pass: 1 to 3 days maximum.
- Period of protection against rain water: 3 to 8 hours.
- Application thickness:

<table>
<thead>
<tr>
<th>Substrates</th>
<th>Masonry</th>
<th>Concrete or undercoat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finishes</td>
<td>before scraping: 15 mm</td>
<td>before scraping: 10 mm</td>
</tr>
</tbody>
</table>

FOR DECORATIVE WATERPROOFING MORTAR

Scraped finish
Spray directly a layer of 15 mm thickness onto the prepared substrate and then level out. As soon as it has set to the touch, scrape the render with the short tooth scraper TK08 (see p.98). The minimum thickness should be 10 mm throughout after scraping.

FOR DECORATING CONCRETE, MASONARY AND AAC BLOCKS

Scraped finish
Spray directly a layer of 10 mm thickness onto the prepared substrate and then level out. As soon as it has set to the touch, 1 to 5 hours after the application, scrape the render with the short tooth scraper TK08 (see p.98). The minimum thickness should be 6 mm throughout after scraping.

Next day lightly brush to remove dust and spray with a light mist of water 2 times per day for 2 days.
weber.therm OM is a render protected ETICS (External Thermal Insulation Composite Systems) comprising of insulation boards, glued and mechanically fixed, reinforced with an imbedded mesh cloth base coat, and finished with a textured colored render.

**AVAILABLE FINISHING COLORS**
16 colors of weber.pas deco see color chart p.104.

**SCOPE OF USE**
- Provides an energy efficient solution for all types of new buildings
- Extends the life of existing buildings
- Simplifies wall construction within the new build sector
- Facilitates the decoration and remodelling of existing façades in need of renovation

**PRODUCT BENEFITS**
- Provides efficient thermal insulation
- Decorative finishes in a comprehensive range of colors
- Eliminates condensation in the structure
- Suitable and effective on most building types.
- Supported by comprehensive technical and architectural services
- Has a high performance weather resistant range of finishes to protect the building fabric

**SUITEABLE SUBSTRATE**
New sound brick / block or existing rendered / unrendered sound masonry / AAC blocks / plaster.

**SUBSTRATE PREPARATION**
If rendered, hammer test and remove all existing bossed render. For existing substrates, or where required on new substrates, clean and wash with clean water and leave for 48 hours. Brush down to remove all moss / growth. Make good boss areas by using appropriate concrete repair mortars or Premixed mortars and plasters SODAMCO Weber range (refer to current product data sheets for further information). Fit full system base and stop beads, where required, with fixings as approved and supplied by SODAMCO Weber.

**INSTRUCTIONS FOR USE**
Mix 25 kg of weber.therm glue with approximately 5 liters potable water and apply to back of the insulant board as specified (approx 6 kg/m²). Position board on wall, tap lightly into position to reconcile edges, and mechanically fix to the masonry substrate using specified weber.therm anc at the rate of 5 psc per board.

**PRECAUTIONS**
Only Applicators trained and approved by SODAMCO Weber should be employed to install the system. Precautions must be taken and protection provided when working in hot weather conditions. The manufacturer’s instructions must be followed as per all current printed information issued by SODAMCO Weber. Good access at the jobsite at all points around the building and at each level must be provided.
weber. therm glue

**COMPOSITION**
Cement, siliceous, fillers, polymer and additives.

**AVAILABLE COLORS**
Grey.

**SCOPE OF USE**
It is mainly used as adhesive to fix rigid insulation to a variety of surfaces, masonry, brick, and cement board. It is resistant to mechanical stress and has an outstanding bonding effect and is water resistant.

**SUITABLE SUBSTRATE**
Fixing insulation onto:
- Masonry brick
- Cement board
- Concrete
- Concrete block
- Lightweight block
- Cement plaster

**COVERAGE**
3 to 7 kg/m²

**PACKAGING**
25 Kg bag

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>TEST</th>
<th>weber. therm glue/substrate</th>
<th>weber. therm glue/EPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Powder</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>1.55 kg/lit. ± 0.05</td>
<td></td>
</tr>
<tr>
<td>Open Time</td>
<td>25 min. at 20 ℃</td>
<td></td>
</tr>
<tr>
<td>Pot Life</td>
<td>2 hrs. at 20 ℃</td>
<td></td>
</tr>
</tbody>
</table>

**TEST**

<table>
<thead>
<tr>
<th>Tensile adhesion strength (n/mm²) ETAG 004:2000(1)</th>
<th>weber. therm glue/substrate</th>
<th>weber. therm glue/EPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>28 days standard conditions</td>
<td>0.26</td>
<td>0.08</td>
</tr>
<tr>
<td>28 days standard conditions + 2 days water immersion + 2 hours drying</td>
<td>0.34</td>
<td>0.1</td>
</tr>
<tr>
<td>28 days standard conditions + 2 days water immersion + 7 days</td>
<td>0.47</td>
<td>0.1</td>
</tr>
</tbody>
</table>

(1): Results pass the minimum requirement of ETAG 004:2000

**INSTRUCTIONS FOR USE**

- Mix weber. therm glue in the proportion of 6 liters of clean cool water per 25kg bag. An electric mixer with low rotation speed (< 300 rpm) can be used. Mix until a uniform lump free paste is obtained. Let the paste rest for a few minutes before starting the application.

- Apply the weber. therm glue mixture on the back side of the insulation board. Apply the adhesive on the inside of the board using the “strip-point” method for EPS, for Mineral Wool board the glue should be spread on the full surface with a notched trowel. It consists of preparation of continuous circumferential block (at least 3 cm wide) at the edge of the board and even distribution of 6 to 8 patches of 8 to 12 cm in diameter on the whole surface. Immediately after application of the mortar on the board, fix the board to the substrate by firm pressing and level it. In case of even and smooth substrates, the mortar can be evenly distributed using a notched float on the whole board surface to ensure 2 to 5 mm layer thickness.

**PRODUCT BENEFITS**
- Polymer modified for high bond strength
- Factory batched for consistency
- Long shelf life

**PRECAUTIONS**
Immediately place the insulation board on the substrate, ensuring that no weber. therm glue mixture gets into board joints. Do not allow the weber. therm glue mixture to form a skin before positioning the insulation board on the substrate as it will affect the bond strength. Joints between adjacent insulation boards should be reduced to the minimum. weber. therm glue should be used in association with mechanical anchors.

**CLEANING**
Clean the tools with water after use. Cured materials can only be removed mechanically.
weber. therm base  

**COMPOSITION**
Cement, siliceous sand and additives.

**AVAILABLE COLORS**
White and grey.

**SCOPE OF USE**
- Bedding coat for mesh cloth systems
- Bonding coat for plastic or mineral fiber lamella insulation systems

**SUITABLE SUBSTRATE**
Excellent reinforcing coat for embedding glass fiber mesh in façade insulation system (ETICS).

**COVERAGE**
3 to 4 kg/m² with mesh cloth embedded.

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>1.55 kg/litr ± 0.05</td>
</tr>
<tr>
<td>Open Time</td>
<td>25 min. at 20 °C</td>
</tr>
<tr>
<td>Pot Life</td>
<td>2 hrs at 20 °C</td>
</tr>
</tbody>
</table>

**PACKAGING**
25 Kg bag

**Tensile adhesion strength (n/mm²) ETAG 004:2000(1)**

<table>
<thead>
<tr>
<th>Test Conditions</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>28 days standard conditions</td>
<td>0.1</td>
</tr>
<tr>
<td>+ 2 days water immersion + 2 hours drying</td>
<td>0.13</td>
</tr>
<tr>
<td>28 days standard conditions + 2 days water immersion + 7 days</td>
<td>0.1</td>
</tr>
<tr>
<td>Water vapor transmission acc. EN 15148:2000 (kg/m².h½)</td>
<td>0.3</td>
</tr>
</tbody>
</table>

*(1): Results pass the minimum requirement of ETAG 004:2000 These values were obtained in laboratory conditions. They may be modified by site conditions.*

**PRECAUTIONS**
The quality of application of this material depends on suitable operative skills and product familiarity.
Restrictions on weather conditions during application and curing must be respected.
Sound trade practices and printing instructions must be followed.

Good access and appropriate protection must be provided.
Do not apply:
- If frost is forecast within 24 hours of use
- If damp/wet conditions
- In temperatures below 5 °C or above 30 °C, when exceeding 30 °C, humidify well the substrate before application and after humidify the render
- On elevations in direct sunlight or where the substrate is hot

**INSTRUCTIONS FOR USE**
Mix weber.therm base in the proportion of 5.5 to 6 liters of clean cool water per 25 kg bag.
An electric mixer with low rotation speed (< 300 rpm) can be used.
Mix until a uniform lump free paste is obtained. Let the paste rest for a few minutes before starting the application.
Use a stainless notched trowel to apply the mortar to the surface of the insulation board to a uniform thickness of appr. 2 to 3 mm; immediately, lay in the mesh cloth.

Once the initial coat has started to ‘take-up’, apply a second layer of adhesive mortar to produce a sandwich approximately 6 mm thick, totally encapsulating the mesh cloth. The mesh cloth must lie within the outer one-third of the weber.therm base. At joints, individual meshes should overlap each other by 10 to 15 cm.
At corners special reinforcing corner angle glass fiber mesh is used.

In order to protect against the formation of cracks, in areas where larger local stresses are to be expected, i.e. in the vicinity of the corners of door, window and other openings, strips of mesh (app. 20 x 40 cm) should be placed diagonally across the corners. In case a thick mineral finish is required, lightly comb scratch the weber. therm base to achieve a good mechanical key.
### weber.pas prime

**COMPOSITION**
Organic components, alkali resistant pigments and additives

**AVAILABLE COLORS**
White.

**SCOPE OF USE**
Inside or outside walls in association with weber.pas deco.

---

<table>
<thead>
<tr>
<th>SUITABLE SUBSTRATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Cement renders</td>
</tr>
<tr>
<td>- Prefabricated concrete or cement panels</td>
</tr>
<tr>
<td>- Premixed cement lime mortar</td>
</tr>
<tr>
<td>- Gypsum plasterboard</td>
</tr>
<tr>
<td>- On weber.therm base</td>
</tr>
</tbody>
</table>

**COVERAGE**
70 m² in 2 coats per 14 liter pails.

**PACKAGING**
Liquid in 20 kg bucket

---

**PRODUCT BENEFITS**
- Provides an even suction for the substrate
- Ready to use
- Easy to apply

---

**SUBSTRATE PREPARATION**
Mineral and masonry substrates e.g. lime and cement plasters and cement renders must be completely dry and hard and free of shrinkage and movement.

Remove mould oil from concrete surfaces.

For renovation the substrate should be free from old plaster and any loose material and peeling paint.

Repaired areas of the surface should have the same strength and hardness as the existing substrate.

---

**PRECAUTIONS**
Unsuitable Substrates include gypsum and gypsum plasterboard.

**SPECIAL RECOMMENDATIONS**
For neutralization of the substrate apply weber.pas prime 1 day before application of weber.pas deco. Ideal application temp 5 °C to 35 °C; protect from direct sun and rain during application. Use only clean tools, no water to be added.

---

**INSTRUCTIONS FOR USE**
Remove the lid and mix manually.

Apply with sponge roller or brush one coat only of weber.pas prime.

Cover the whole area. Allow to dry for 24 hours before application of weber.pas deco.
weber.pas deco

**COMPOSITION**
Alkali waterglass, dispersion for stabilization, marble sands. High performance pigments UV stable and additives.

**AVAILABLE COLORS**
16 standards colors, see color chart p.104.

**SUITABLE SUBSTRATE**
Mineral background e.g. cement renders, lime plasters, concret and gypsum plasterboard.

**SCOPE OF USE**
Decoration of masonry substrates e.g. grey renders; can also be used as the finishing coat for weber. therm OM ETICS system.

**COVERAGE**
2.9 – 3.1 kg/m²

**PACKAGING**
Paste, in 30 kg bucket

**CHARACTERISTICS**
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water permeability</td>
<td>40</td>
</tr>
<tr>
<td>Water absorption</td>
<td>&lt; 0.15</td>
</tr>
<tr>
<td>Density (kg/m³)</td>
<td>1600-1800</td>
</tr>
<tr>
<td>Appearance</td>
<td>Grain-to-grain or rolled-grain finish</td>
</tr>
</tbody>
</table>

**PRODUCT BENEFITS**
- Mineral aspect
- Breathability
- Durability (UV resistance)
- Low sensitivity to dust
- Good water repellency
- Ability to cover micro cracks on existing substrates
- Adapted onto ETICS systems

**APPLICATION**
Remove the lid and mix with a low-speed drill and whisk attachment. Clean water can be added to aid workability; max 0.5 liter per 30 kg bucket; mix thoroughly.

**INSTRUCTIONS FOR USE**
- Remove the lid and mix with a low-speed drill and whisk attachment. Clean water can be added to aid workability; max 0.5 liter per 30 kg bucket; mix thoroughly.
- Manually apply with a stainless steel trowel to a carefully controlled thickness not exceeding the aggregate size.
- The texture is then achieved with a thin plastic trowel. Joints should be pre-determined and can be constructed by carefully butt-joining the edges to achieve a seamless joint.
- Raised or recessed joints must be completely coated.

**Important Note**
weber.pas deco is a silicate based coating with certain elasticity characteristics enabling it to bridge the micro cracks (max 0,2 mm) that may appear on the underlying cementitious substrate. It is not bridging cracks from structural movement of the substrate.

**PRECAUTIONS**
Unsuitable substrate include gypsum, gypsum plasterboard and wood. On temperatures over 30 °C do not apply under direct sunlight or use shade netting on scaffolding. Always store the buckets in cool place.

**TOOLS**
Stainless steel trowel, thin plastic trowel, low-speed drill and whisk.
Mineralite

COMPOSITION
White Portland Cement, graded sands, specially selected aggregates, additives and light fast pigments.

AVAILABLE COLORS
13 colors, see color chart p.105.

SCOPE OF USE
Mineralite will protect, decorate and upgrade concrete, block work, render and other masonry substrates.
Mineralite is the decorative top-coat of a two coat render system.
Mineralite is suitable for both interior and exterior walls.

SUITABLE SUBSTRATE
- Sand-cement renders
- Rough concrete
- Cement Premix plaster

COVERAGE
Approx 75 m² per ton at 5 mm thickness.

Note: this estimate does not allow for wastage and may vary according to the type and condition of the substrate. Undercoats to receive Mineralite must be of good alignment.

SUBSTRATE PREPARATION
Mineralite should be applied onto a 10-12 mm undercoat of Premix plaster or traditional render conforming to mix designation II (1:1/2:4 cement: lime: sand).

Scaffolding must be independently tied to allow for an uninterrupted application. Any faults in the structure, particularly those which may lead to moisture penetration must be rectified.

To avoid dampness and discolouration rendering should be avoided below DPC (Damp Proof Concrete) and within 150 mm of ground level.

All surfaces must be sound, clean, suitably dry and free of any material which may impair adhesion.

Undercoats must be well adhered to the substrate, of good alignment, thoroughly horizontally keyed and fully cured before Mineralite is applied.

All faults to be rectified before Mineralite is applied.

Edging tape must be removed before the material has dried.

Expansion joints should be included to coincide with joints in the substrate and carried through all render coats. To aid good quality application panel size should be controlled: a maximum of 6m² is recommended as a workable size.

Feature stop details, angles and joints in Mineralite should be formed using clean and straight hardwood battens of 5 mm thickness with chamfered edges. Alternatively suitable UPVC beads may be used.

INSTRUCTIONS FOR USE
Mineralite from different batch numbers should be thoroughly mixed together before use.

Mineralite is applied by stainless steel trowel and levelled to a thickness of 5 mm. Using a plastic float and stainless steel trowel ensure the surface is closed. When firm to the touch, the aggregate is exposed with a wool roller and clean water. Consolidate with a damp felt pad. After 24-48 hours maximum clean the surface with a dilution of 1 part hydrochloric acid to 3 parts clean water.

PACKAGING
25 kg paper bags: 40 bags per pallet 1000 kg.

PRODUCT BENEFITS
- Natural stone aspect
- Durable, weatherproof
- Allows the substrate to breathe
- Low maintenance

PRECAUTIONS
Do not apply:
- On wood or metal surfaces
- On gypsum-based materials or paint.
- At ground level in order to avoid staining.

On design features such as parapet or similar, the render should be protected.

For difficult substrates please call SODAMCO Weber for advice. As with all batch-made materials, and especially those containing natural aggregates, an exact colour match cannot always be achieved.

Protection from unfavourable weather conditions should always be provided during application and early age curing.

Mask and gloves are paramount.

CURING
Cure with mist of water 3 - 5 days following application

CLEANING
All equipment must be washed with clean water immediately after use. Waste material should not be emptied into drainage systems.

Technical Data Sheets
**weber.cote beton**

**COMPOSITION**
Anti-carbonation protective coating.

**AVAILABLE COLORS**
6 colors, see color chart p.108.

**SCOPE OF USE**
The elastometric nature of weber.cote beton ensures good crack bridging properties.

**SUITABLE SUBSTRATE**
Where new and existing concrete structures require protection from carbon dioxide, sulphur dioxide, oxides of nitrogen, chlorides, sulphates and UV radiation. Examples: car parks, commercial and industrial buildings, bridges, subways, beach resorts, high rise flats, etc.

**COVERAGE**
70 m² in 2 coats per 14 liter bucket.

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight by volume</td>
<td>1.36 kg / l</td>
</tr>
<tr>
<td>pH</td>
<td>9</td>
</tr>
<tr>
<td>Viscosity</td>
<td>10,500 MPa·s</td>
</tr>
<tr>
<td>Carbon dioxide diffusion resistance</td>
<td>417.27 m</td>
</tr>
</tbody>
</table>

These values were obtained in laboratory tests in a conditioned environment and may be considerably affected by conditions of application.

**PACKAGING**
14 liter bucket

**SUBSTRATE PREPARATION**
Clean well the surface and remove all loose particles. Brush and wash the surface to remove any residues of mould release agents, greasy matters and dust. weber.cote beton is applied by brush, roller, airless spraying machine.

**PRECAUTIONS**
Do not apply:
- On substrates other than those indicated.
- On old synthetic paint without first checking whether anchorage is perfect.

**PRODUCT BENEFITS**
- Protects substrates from carbonation
- Excellent weathering resistance
- Elastic nature
- Allows structure to «breathe»
- Water based and non-toxic
- Easy to clean
- Single pack and easy to apply

**INSTRUCTIONS FOR USE**
weber.cote beton can be applied using a brush, roller or airless spraying machine.

- Prime the substrate with weber.cote beton diluted at 100%. 1 liter of weber.cote beton will require 1 liter of water.
- Wait for approx 12 hours at 20°C, and then apply one coat of weber.cote beton diluted with 40% of clean water.
- Wait again for 12 hours, and apply the final coat of weber.cote beton diluted with 20% of clean water.
- Wash tools with water immediately after use.
**Decofaçade.300 PR**

**Decofaçade.300 PR** Acrylic water based primer

**COMPOSITION**
Acrylic polymers.

**AVAILABLE COLORS**
The product is available in different colors (white, beige and others).

**SCOPE OF USE**
It is used before the application of Decofaçade.310 MX, Decofaçade.330 RC, and Decofaçade.350 SX.

**SUITABLE SUBSTRATE**
Cementitious, gypsum and wood substrates.

**COVERAGE**
0.25 kg/m².

<table>
<thead>
<tr>
<th>CHARACTERISTICS</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Paste density</td>
<td>1.25</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

**PACKAGING**
20 kg plastic pail

**SUBSTRATE PREPARATION**
Substrate must be clean, sound and free from greasy matters and dust. Remove all traces of paint, mould oil which may affect the adhesion. Before the application the substrate must be sufficiently cured in a way that any shrinkage has already occurred. Before the application of Decofaçade.300 PR, moisten the substrate and wait until it becomes dry at the surface.

**PRECAUTIONS**
Wear protective gear for hands and eyes. Do not apply under direct sunlight or use shade netting on scaffolding.

**INSTRUCTIONS FOR USE**

Decofaçade.300 PR is applied using a paint brush or wooden roller. It is recommended to apply the product in two crossed layers. The first layer must be dry before the application of the second one.

**PRODUCT BENEFITS**
- Homogeneous absorption for substrate
- Uniform aspect
Decofaçade.310 MX

**COMPOSITION**
It includes a special selection of graded quartz sand and fillers and special additives.

**AVAILABLE COLORS**
The product is available in different colors (see color chart, p. 106).

**SCOPE OF USE**
External and internal wall applications.

**SUITABLE SUBSTRATE**
It can be used on properly prepared Premix plastered surfaces such as concrete, masonry.

**COVERAGE**
2.5 kg/m².

**PACKAGING**
20 kg plastic pail

<table>
<thead>
<tr>
<th>CHARACTERISTICS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Paste density</td>
<td>1.80</td>
</tr>
<tr>
<td>pH</td>
<td>8</td>
</tr>
</tbody>
</table>

**PRODUCT BENEFITS**
- Workability properties
- Aesthetic appeal
- UV resistant
- Water resistant

**SUBSTRATE PREPARATION**
Substrate must be clean, sound and free from greasy matters and dust. Remove all traces of paint, mould oil which may affect the adhesion. Before the application the substrate must be sufficiently cured in a way that any shrinkage has already occurred. Prime the substrate with Decofaçade.300 PR at least one day before the application of Decofaçade.310 MX.

First apply Decofaçade.300 PR by using a paint brush or wooden roller. It is recommended to apply the product in two crossed layers. The first layer must be dry before the application of the second one.

After 24 hours, Decofaçade.310 MX is applied using a stainless steel trowel and leveled with a plastic trowel before the directions of the ribs.

**PRECAUTIONS**
Wear protective gear for hands and eyes. Do not apply under direct sunlight or use shade netting on scaffolding.
Decofaçade.330 RC

COMPOSITION
Synthetic decorative coating. It includes a special selection of graded fillers.

AVAILABLE COLORS
12 colors, see color chart p.106.

SCOPE OF USE
External and internal wall applications.

SUITABLE SUBSTRATE
It can be used on properly prepared Premix plastered surfaces such as concrete, masonry.

COVERAGE
1.2 kg/m².

CHARACTERISTICS
<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paste density</td>
<td>1.54</td>
</tr>
<tr>
<td>pH</td>
<td>8</td>
</tr>
</tbody>
</table>

PACKAGING
20 kg plastic pail

SUBSTRATE PREPARATION
Substrate must be clean, sound and free from greasy matters and dust. Remove all traces of paint, mould oil which may affect the adhesion. Before the application the substrate must be sufficiently cured in a way that any shrinkage has already occurred. Prime the substrate with Decofaçade.300 PR at least one day before the application of Decofaçade 330 RC.

PRODUCT BENEFITS
• Decorative coating
• Workability properties
• Aesthetic appeal

PRECAUTIONS
Wear protective gear for hands and eyes. Do not apply under direct sunlight or use shade netting on scaffolding.

INSTRUCTIONS FOR USE
First apply Decofaçade.300 PR by using a paint brush or wooden roller.
It is recommended to apply the product in two crossed layers. The first layer must be dry before the application of the second one.

After 24 hours, Decofaçade.330 RC is applied by using a long pile roller. The head must be kept fully loaded to allow for an even application without spreading the finish too thinly.
Decofaçade.340 HE

**COMPOSITION**
An elastomeric acrylic aqueous dispersion containing pigments, mineral fillers and rheological additives.

**AVAILABLE COLORS**
6 colors range, see color chart p.107.

**SCOPE OF USE**
External and internal wall applications.

**SUITABLE SUBSTRATE**
It can be used on properly prepared Premix plastered surfaces such as concrete, masonry. It is possible to over-coat existing coatings on a mineral or synthetic resin base that are well adhered and in good condition.

**COVERAGE**
0.6 kg/m²/coat using a cotton roll.

**PACKAGING**
20 kg plastic pail

<table>
<thead>
<tr>
<th>CHARACTERISTICS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Paste density</td>
<td>1.150</td>
</tr>
<tr>
<td>pH</td>
<td>11</td>
</tr>
<tr>
<td>Elongation at break</td>
<td>≈ 400%</td>
</tr>
</tbody>
</table>

**SUBSTRATE PREPARATION**
Substrate must be clean, sound and free from greasy matters and dust. Remove all traces of paint, mould oil which may affect the adhesion. Before the application the substrate must be sufficiently cured in a way that any shrinkage has already occurred. All imperfections, cracks must be repaired using suitable materials from our range of products before application of Decofaçade.340 HE.

**PRECAUTIONS**
Wear protective gear for hands and eyes. Do not apply under direct sunlight or use shade netting on scaffolding.

**INSTRUCTIONS FOR USE**
Stir thoroughly before and during use. Decofaçade.340 HE is applied using a cotton roll. Two coats are usually required to obtain satisfactory results but additional coats can be used if required. The first coat of Decofaçade.340 HE can be diluted with up to 10% by volume clean water and used as a priming coat.

For the second coat, dilution is unnecessary, but if required to obtain desired application properties, a small amount of clean water not more than 0.5 liter/20 Kg pail may be added.

**PRODUCT BENEFITS**
- Elastomeric film
- High resistance to extreme weather conditions
- Non toxic
- Environmental friendly
Decofaçade.350 SX is a ready to use acrylic sanded finish coating. It includes a special selection of graded quartz sand and fillers and special additives.

**AVAILABLE COLORS**
12 colors range, see color chart p.106.

**SCOPE OF USE**
External and internal wall applications.

**SUITABLE SUBSTRATE**
It can be used on properly prepared Premix plastered surfaces such as concrete, masonry.

**COVERAGE**
2.5 kg/m².

**CHARACTERISTICS**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Paste density</td>
<td>1.92</td>
</tr>
<tr>
<td>pH</td>
<td>8</td>
</tr>
</tbody>
</table>

**PRODUCT BENEFITS**
- Good workability properties
- Aesthetic appeal
- UV resistant
- Water resistant

**PACKAGING**
20 kg plastic pail

**SUBSTRATE PREPARATION**
Substrate must be clean, sound and free from greasy matters and dust. Remove all traces of paint, mould oil which may affect the adhesion. Before the application the substrate must be sufficiently cured in a way that any shrinkage has already occurred. Prime the substrate with Decofaçade.300 PR at least one day before the application of Decofaçade.350 SX.

**PRECAUTIONS**
Wear protective gear for hands and eyes. Do not apply under direct sunlight or use shade netting on scaffolding.

**INSTRUCTIONS FOR USE**
First apply Decofaçade.300 PR by using a paint brush or wooden roller.

It is recommended to apply the product in two crossed layers. The first layer must be dry before the application of the second one.

After 24 hours, Decofaçade.350 SX is manually applied with a stainless steel trowel to a carefully controlled thickness not exceeding the aggregate size. The texture is then achieved with a thin plastic trowel before the setting time of the product.
Premix.SP-1

COMPOSITION
Portland Cement, selected sand, specific additives.

AVAILABLE COLORS
Grey.

SCOPE OF USE
Premix.SP-1 is recommended for external and internal plastering.

SUITABLE SUBSTRATE
On block walls, ceilings, concrete surfaces, bricks and for general filling up.

COVERAGE
Approximately 1.6 kg per m² per 1 mm thickness.

CHARACTERISTICS

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grain size</td>
<td>0 to 2.5 mm</td>
</tr>
<tr>
<td>Mixing ratio</td>
<td>7-9 liters per 50 kg bag</td>
</tr>
<tr>
<td>Powder density</td>
<td>1.55 ± 0.10</td>
</tr>
<tr>
<td>Wet mix life</td>
<td>&lt; 2 hours at 20°C</td>
</tr>
<tr>
<td>VOC and formaldehyde</td>
<td>None (&lt;10μg/l)</td>
</tr>
<tr>
<td>content ISO/FDIS 11890-2/GC-MS</td>
<td></td>
</tr>
</tbody>
</table>

PACKAGING
50 kg bag

*For the Near East region Premix.SP1 is equivalent to Premix.plaster hand.

SUBSTRATE PREPARATION
The substrate must be clean, sound, and free from dust and all traces of oil and laitance. A spatter dash slurry coat (Premix.SRC-1, Premix.SRC-2 or Premix.SRC-S) should be applied as a key coat for improved bonding and adhesion of subsequent layers. A few hours before the application of Premix.SP-1, dampen the rush coat with clean water.

CURING
The new plaster has to be cured with water for at least three days by spraying 3 to 4 times daily.

PRECAUTION
Protect the newly applied plaster from sunshine and wind.

INSTRUCTIONS FOR USE
Mix manually or mechanically a 50 kg bag of Premix.SP-1 with 7 to 9 litres of clean water until a homogeneous paste is obtained. Let the mix rest for a few minutes. If a spraying machine is used, the mixing is carried out automatically.

Apply the plaster on the prepared surface by spraying it or manually with a plastering trowel at a thickness between 10 and 20 mm in one layer. Finish the surface with a wooden or steel float as required. Let the product set properly on the surface before any curing. If more thickness is required, the application should be done in two layers.

The 1st layer should be roughened then cured. The 2nd layer should be applied at least 48 hrs after the 1st one.
**Premix.SRC-1**

**COMPOSITION**
Portland Cement, selected sand, specific additives.

**AVAILABLE COLORS**
Grey.

**SCOPE OF USE**
Premix.SRC-1 is a ready mixed mortar based on mineral bonding agent used for preparing surfaces before the rendering. It improves the adhesion of the new plaster, cement and gypsum based. It is applied on masonry blocks.

**SUITABLE SUBSTRATE**
Regular rough concrete, concrete blocks and clay bricks.

**COVERAGE**
Around 4 kg/m², depending on the substrate and the application method.

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Appearance</th>
<th>granular powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grain size</td>
<td>0 to 3 mm</td>
</tr>
<tr>
<td>VOC and formaldehyde content</td>
<td>ISO/FDIS 11890-2/GC-MS</td>
</tr>
</tbody>
</table>

**PACKAGING**
50 kg bag

---

**PRODUCT BENEFITS**
- It improves the adhesion of the new plaster, cement & gypsum based.

**SUBSTRATE PREPARATION**
The substrates must be sound, clean, dust free and free from all traces of oil, curing compound, gypsum, paint or laitance. The substrate must be dampened a few hours before the application of Premix.SRC-1.

**CURING**
The new plaster has to be cured with water for at least three days by spraying 3 to 4 times daily.

**PRECAUTION**
Protect the newly applied plaster from sunshine and wind.

**INSTRUCTIONS FOR USE**

- Mix a 50 kg bag with 9 to 11 liters of potable cool water in order to obtain the consistency desired. Mixing has to be done with an electric mixer.
- Apply the Premix.SRC-1 using a tyrolean box or a power spray gun.

*For the Near East region Premix.SP1 is equivalent to Premix.key coat.*
Premix.SRC-2

**COMPOSITION**
Portland Cement, selected sand, specific additives.

**AVAILABLE COLORS**
Grey.

**SCOPE OF USE**
Used for preparing surfaces before the rendering. It improves the adhesion of the new plaster, cement and gypsum based. It is applied on normal strength fair faced concrete.

**SUITEABLE SUBSTRATE**
Fair faced concrete.

**COVERAGE**
Around 4 kg/m², depending on the substrate and the application method.

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>granular powder</td>
</tr>
<tr>
<td>Grain size</td>
<td>0 to 3 mm</td>
</tr>
<tr>
<td>VOC and formaldehyde content ISO/FDIS</td>
<td>None (&lt;10μg/l)</td>
</tr>
<tr>
<td>ISO 11890-2/GC-MS</td>
<td></td>
</tr>
</tbody>
</table>

**PACKAGING**
50 kg bag

**PRODUCT BENEFITS**
• It improves the adhesion of the new plaster, cement & gypsum based.

**SUBSTRATE PREPARATION**
The substrates must be sound, clean, dust free and free from all traces of oil, curing compound, gypsum, paint or laitance. The substrate must be dampened a few hours before the application of Premix.SRC-2.

**CURING**
The new plaster has to be cured with water for at least three days by spraying 3 to 4 times daily.

**PRECAUTION**
Protect the newly applied plaster from sunshine and wind.

**INSTRUCTIONS FOR USE**
Mix a 50 kg bag with 10 to 12 liters of clean water in order to obtain the consistency desired. Mixing has to be done with an electric mixer.

Apply the Premix.SRC-2 using a tyrolean box or a power spray gun.

*For the Near East region Premix.SP1 is equivalent to Premix.key coat.
Premix.SRC-LW

**COMPOSITION**
Portland Cement, selected sand, additives, pigments.

**AVAILABLE COLORS**
Pink.

**SCOPE OF USE**
For internal and external walls.

**SUITABLE SUBSTRATE**
Lightweight AAC (autoclaved aerated concrete) blocks.

**COVERAGE**
Around 4 kg/m², depending on the substrate and the application method.

---

**PACKAGING**
50 kg bag

---

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Granular powder</td>
</tr>
<tr>
<td>Grain size</td>
<td>0 to 3 mm</td>
</tr>
<tr>
<td>VOC and formaldehyde</td>
<td>None (&lt;10μg/l)</td>
</tr>
<tr>
<td>Content ISO/FDIS 11890-2/GC-MS</td>
<td></td>
</tr>
</tbody>
</table>

---

**SUBSTRATE PREPARATION**
The substrate must be clean, sound, and free from dust and all traces of oil or laitance. The substrate must be dampened a few hours before the application of Premix.SRC-LW and again 1 hour before application.

---

**CURING**
The new plaster has to be cured with water for at least three days by spraying 3 to 4 times daily.

---

**PRECAUTION**
Protect the newly applied plaster from sunshine and wind.

---

**INSTRUCTIONS FOR USE**
- Mix a 50 kg bag with 9 to 11 liters of clean cool water in order to obtain the consistency desired. Mixing has to be done with an electric mixer.
- Apply the Premix.SRC-LW using a tyrolean box or a power spray gun.

---

**PRODUCT BENEFITS**
- It improves the adhesion of the new plaster, cement and gypsum based.
- Adapted to lightweight AAC blocks
Standard plastering tools are all that are needed for application of any renders and finishes, however stainless trowels are recommended especially for synthetic finishes where mild steel equipment can rust very quickly and deposits can be transferred to finished materials.

After the basic trowel necessary to apply formless materials there are some specialist tools that can be supplied by SODAMICO Weber that will aid the professional to produce consistent high quality work. Proprietary scraping tools are required to produce scraped finish renders and specialist Ashlar cutters to produce high quality Ashlar features.

<table>
<thead>
<tr>
<th>Tools</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bucket trowel TK23</strong></td>
<td>A substantial square nosed trowel, the bucket trowel is a must for the tradesman regularly applying ready-mixed synthetic finishes direct from the pail. Blade size approx. 125 x 220 mm.</td>
</tr>
<tr>
<td><strong>Plastic trowel TK26</strong></td>
<td>Not to be confused with the standard plasterer’s thick section plastic float used as a modern equivalent of the wood float, this thin blade plastic trowel is often recommended for finishing synthetic finishes. Size approx. 140 x 300 x 2 mm.</td>
</tr>
<tr>
<td><strong>Plasterer’s knife TK04A</strong></td>
<td>A distinct advantage for closing in through-coloured renders ready for scraping after ruling and leveling surfaces of monocouche renders ready for application of spray texture coats, this long plasterer's knife may sometimes be referred to as a spatula. Blade length approx. 600 mm.</td>
</tr>
<tr>
<td><strong>Long tooth scraper TK07</strong></td>
<td>Essential for the consistent and even finishing of monocouche renders the long tooth scraper is the standard tool for work with SODAMICO Weber through-coloured scrape finish renders when finishing the same day as application. Size approx. 140 x 240 mm. Tooth length approx. 20 mm</td>
</tr>
<tr>
<td><strong>Short tooth scraper TK08</strong></td>
<td>Used for the same purpose as the long tooth scraper this float has shorter, scraper teeth, which are more aggressive in removing surface laitance of coloured renders and is particularly useful to use when the render’s set has progressed a little beyond the ideal. Size approx. 150 x 250 mm. Tooth length approx. 10 mm.</td>
</tr>
</tbody>
</table>

**Tools**

<table>
<thead>
<tr>
<th>Tools</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Plain straight edge TK02</strong></td>
<td>The use of a straight edge is essential for leveling and render. This h-section rule is a favourite of tradesmen applying materials by machines and particularly useful for leveling and feeding material from the high points back onto the wall in the same operation. Size approx. 1200 x 115 mm.</td>
</tr>
<tr>
<td><strong>Serrated straight edge TK24</strong></td>
<td>Use of the I-section scraping edge improves the flatness of scraped renders. It is a great advantage when incorporating Ashlar features in monocouche render as Ashlar features can highlight any deviation in the wall along their line. Used to scrape the surface over an extended length, it ensures increased accuracy in flatness along the line of the Ashlar cuts. Size approx. 1200 x 75 mm.</td>
</tr>
<tr>
<td><strong>Section scraping edge TK25</strong></td>
<td>Available in two widths this basic Ashlar plough produces square section Ashlar features, maximum recommended depth 5 mm, when run along the top of a straight rule placed along a previously described chalk line.</td>
</tr>
</tbody>
</table>

**Ashlar cutter TK11 (10mm) TK20 (20mm)**

**Ashlar tool TAT**

A more complex tool, the ashlar tool can be fitted with a variety of profiles and can be adjusted to cut features at a regular depth from the face of a box section straight rule placed along a previously described chalk line. Recommended depth of cut 2-10 mm. Chamfered 40 mm blade included as standard.

Replacement or alternative blades are available in the following profiles. Chamfered - 25 mm, 90° V - 25 mm, 120° V - 40 mm, blank - 40 mm.
Machine application

Machine application benefits

Using machines to mix and spray façade renders brings a lot of benefits
• It facilitates application making work less laborious
• It reduces the total time of works with a better productivity
• It brings reliable results, eliminating human mistakes (dosage, regular mixing, homogeneity…)
• It improves technical and aesthetical performances of the render (mechanical resistances, final aspect…)
• It improves sustainability (waste and water reduction )

A contractor using machine makes current skilled personnel more productive and shows a distinct advantage.
Tradesmen applying external renders must to be free to apply their skills to completing external render, not labouring to carry mixed material to the place it is needed.

Modern machinery not only mixes and conveys the wet material in just such a way but also even applies it to the wall so that trades people have the opportunity to use their levelling and finishing skills and take care of the details for a better quality.

By mechanical mixing, the properties of the premixed mortars are fully developed and the performances of the renders are better achieved.

By spraying the products onto the walls, the adhesion of renders is reinforced, regular thickness is easier to achieve and homogeneous aspect of the colour is guarantied.

Using a machine brings competitiveness to the applicators and therefore a good return on investment.

Types of machines and services

Specific machines have been designed by machines producers and improved, year after year, and bring now a very good compromise in term of ergonomics, efficiency and cost.
Self-contained electrical powered, can pump long distances (up to 60 m dependent on height and material).

Material can be used direct from the pallet and the machine positioned in all types of projects (individual houses or high rise buildings).

SODAMCO Weber provides advices, technical assistance, trainings and services related to machine application.
Do not hesitate to contact our sales agent or customers services.

Color Charts
* Actual colors may vary from printed references, please refer to real product color chart
## Decofaçade color chart

### Textures

<table>
<thead>
<tr>
<th>Profile</th>
<th>Roll texture</th>
<th>Granular</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decofaçade.310 MX</td>
<td>Decofaçade.330 RC</td>
<td>Decofaçade.350 SX</td>
</tr>
</tbody>
</table>

### Available Colors

- **Profile**: Decofaçade.310 MX, Decofaçade.330 RC, Decofaçade.350 SX

### Texture

- **Acrylic roll texture**: Decofaçade.340 HE

### Available Colors

- **Profile**: Decofaçade.310 MX, Decofaçade.330 RC, Decofaçade.350 SX

*Actual colors may vary from printed references, please refer to real product color chart*
*Actual colors may vary from printed references, please refer to real product color chart*