CORAS 60

FIBRE-REINFORCED MULTI-PURPOSE BONDING AND SMOOTHING MORTAR FOR THERMA INSULATION SYSTEM.

DESCRIPTION

Coras 60 is a pre-mixed fiber reinforced, polymer modified multi-purpose bonding mortar according to EN 998-1 and ETAG 004. It is suitable as a bonding mortar to fix the insulation panels or as a keying coat on concrete and insulation boards or as a finish render.

CLASSIFICATION

GP CS IV W_C2 according with EN 998-1:2016

APPLICATION

Bonding all types of thermal insulation panels (foam /extruded polystyrene, foam polystyrene, mineral fibres, cork, etc.) directly on render brickwork or concrete walls or ceilings.

FEAUTERES & BENEFITS

- High adhesion
- According with ETAG 004
- Ideal for smoothing
- Good quality/price ratio

COVERAGE

Bonding of insulation panels 4÷5 kg/m2
Smoothing 1,33 Kg/m2 per mm

PACKAGING

25 paper bags on a.250 Kg pallet (50 bags)

SHELF LIFE

This product must be stored in original unopened packaging, in a dry and protected place, at temperature beween + 5 and +35°C.
Shelf life: 6 months from the date of manufacture printed on the side of the bag. Contains Cr (VI) less 2 p.p.m.

GOOD PRACTICE

Do not apply if frost is forecast within 24 hours of use, in damp/wet conditions, temperatures below 5 °C or above 35°C, on elevations in direct sunlight or where the substrate is hot.

TECHNICAL DATA

Properties	Test Method	U.M.	Data
Appearance			Powder white/grey colours
Size		mm	0,0 ÷ 0,8
Density		Kg/m^3	1350
Workability time		h	About 4
Application temperature		°C	From + 5 to + 35
Dry time		h	24
Subsequent coats		h	After approx. 24 h drying time
Finishing		d	After approx. 14 h days time
Water absorption **- After 1 h** **- After 24 h**	ETAG 004	Kg/m^2	<0,2 <0,3
Adhesion to concrete sub. - Dry - wet, after 2 hours of drying - wet, after 7 days of drying	ETAG 004	N/mm^2	> 1,5 > 0,5 > 1,5
Adhesion to masonry - Dry - wet, after 2 hours of drying - wet, after 7 days of drying	ETAG 004	N/mm^2	> 0,5 > 0,4 > 0,5
Adhesion to plaster **- Dry** **- wet, after 2 hours of drying** **- wet, after 7 days of drying**	ETAG 004	N/mm^2	> 0,5 > 0,4 > 0,5
Adhesion to EPS panels **- Dry** **- wet, after 2 hours of drying** **- wet, after 7 days of drying**	ETAG 004	N/mm^2	> 0,1 > 0,05 > 0,1

SUBSTRATE PREPARATION

Surfaces should be rigid, dry, clean and free from dust, grease and other barriers to adhesion. The product will adhere directly to absorbent construction boards, cement or gypsum-based plasters. Most absorbent surfaces do not require priming, a scratch coat is recommended. Subgrade must have a minimum direct tensile strength of 0.25 N/mm^2. Compatible primers should always be used.

MIXING

Gradually add 6 Kg of clean water to 25Kg powder bag while stirring, and thoroughly mix until a lump-free consistency is achieved. The use of a drill and appropriate mixing paddle, suitable for the volume being mixed, is recommended. Mixing by hand is possible for small quantities. Allow the product to stand for approximately 10 minutes to allow all of the high performance additives to fully dissolve and wet out before remixing the product to a smooth creamy consistency.

Flexural strength	EN 196-1	N/mm^2	3,5
Compressive strengrh	EN 1015-11	N/mm^2	8,5 (CS IV)
Water resistance			Excellent
Resistance to ageing			Excellent
Water vapour permeability	EN 1015-19	μ	20
Thermal conductivity	EN 1745	W/mK	0,47
Reaction to fire	EN 13501-1	Class	F

APPLICATION

Bonding insulating sheets on planar support: apply the product on the back of the insulating panel, using an 8 or 10 mm notched trowel, taking care not to spread the adhesive in the thickness of the insulation.

Bonding of insulating panels on non-planar support: apply the adhesive on to the perimeter of the panel and 2-3 central points.
In both cases, make sure that the adhesive covers the panel more than 40% of the total area. When apply the panels, make sure the adhesive does not run into the joints between the adjacent panels: the adhesive is more conductive and would form a thermal bridge.
The thickness of the coat of adhesive should be sufficient to cover the surface of the panel evenly and/or eliminate differences in flatness in the substrate up to 4 mm. To obtain the thickness required, we suggest using a 10 mm notched trowel. Apply the panels starting from the bottom of the wall working upwards, with the longest side of the panels placed horizontally, and also stagger the vertical joints in correspondence with the corners and edges. To get the best performance, apply the panel right after spreading the adhesive on the back of the insulating panel, especially in hot and/or windy weather. In order to form the maximum contact area between the substrate, adhesive and panel, use a float to press downs on the panels immediately after installation and then check the flatness using a straight edge. After installing the panels, if the vertical joints between the panels are wider than 2 mm, fill the gaps with insulating material. Apart from the adhesive (but not instead of the adhesive), the panels may be fixed in place mechanically using polypropylene plugs in correspondence with the hardened adhesive. As a general rule, use two plugs for each panel if the substrate shows excellent cohesion, is perfectly flat and adhesive has been applied over the entire surface of the back of the panel. If, however, the substrate shows poor cohesion and/or is not flat, or if the adhesive has been applied in beads and spots, use up to 6 to 8 plugs per square meter and insert them in correspondence with the top of the panels until the more cohesive part of the substrate has been reached. Immediately after installing the panels, put strengthening elements in correspondence with the edges. The elements must not be fastened in place with plugs or nails, but bonded to the insulating panel by pressing them against the edge so the excess adhesive flows through the holes in the profiles.

Smoothing
The product must only be applied on the adhesive is hard enough (the time required depends on the weather conditions and normally takes at least 24 hours). Apply an even layer of smoothing mortar with a steel spatula (4 mm in two layers). Apply the first 2 mm thick layer and, while it is still fresh, place an alkali-resistant glass fibre mesh on the surface overlapping the edges by at least 10 cm. After 24 hours apply the second layer of smoothing and levelling compound (again 2 mm thick) to form an even layer which covers and embeds the mesh. When the smoothing layer is perfectly dry (after at least 14 days in good weather) apply a coat of primer to even out the absorption of the substrate. Wait at least 12 hours before applying the finishing coat.

HAZARD CLASSIFICATION

Consult the material safety data sheet before use.

CUSTOM CLASS
3824 50 90

WARNINGS
Respect the current manufacturer's instruction and the information on the safety data sheet. Product for professional use. Do not introduce any other external material during preparation or application of the mortar. During the cuing and the hardening times, the material and substrate temperature must be kept between + 5 and + 35°C. protect the façade from direct sunlight, rain and wind. High temperature (> 35 °C) can modify the workability time of the product. High relative humidity and /or low temperatures can significantly lengthen the curing times and cause non-homogeneous chromatic changes. The uniformity of the colour is guaranteed only by using products from same batch. Before application, check the material to make sure that the colour, grain size and characteristics match to the product specifications. No claim will be accepted for deviations in colour and /or characteristics after application. The technical data refer to the basic products. The coloring may lead to deviations of the characteristic values. The values shown are average values. Consequently to the use of natural raw materials the values relating to certain supplies may present slight deviations, and can therefore change according to the site situations. The product cannot remain exposed to the environmental condition after application; protect by suitable finishing products.

All our products are of a high quality and subject to rigid quality control. The information given in this specification sheet is for guidance and is given in good faith but no liability can be assumed by Barozzi Vernici S.r.l. for the performance of the products and for final results, since skills of application and site conditions are beyond our direct control. The information contained in this document is strictly confidential and shall be the sole and exclusive property of Barozzi Vernici S.r.l..