

RASOKOLL

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One-component cementitious mortar suitable for bonding and smoothing insulating panels and external wall insulation systems. Classified as GP (according to EN 998-1).



FIELDS OF USE

- Fixing of all types of insulating panels (extruded or expanded polystyrene, rock wool, glass and cork) to indoor and outdoor walls and ceilings.
- Smoothing coat on insulating panels with an embedded reinforcement mesh, on indoor and outdoor walls.
- Suitable for applications on cement-based substrates, gauged mortar and bricks.
- Applications on gypsum, plasterboard and scagliola, provided the surface is primed with **APPREX G** at least 6 hours beforehand.

NATURE OF THE PRODUCT

RASOKOLL consists mainly of a blend of cements, mineral fillers and specific additives.

MIXING

Mix the powder with clean water until a homogeneous and lump-free mix is obtained. Allow to hydrate for 5 minutes and then stir again briefly. The product has the appearance of a soft thixotropic paste and is easily applied with a trowel.

APPLICATION PROCEDURE

Planar substrates: using a notched trowel, apply a uniform coat of **RASOKOLL** to the back of the panel, to a thickness of 5 to 10 mm approximately, leaving an area of about 2 cm uncoated all around the perimeter of the panel, so that when you adjust the panel the material will spread evenly without seeping out from under the edges of the panel. Using a float, exert a uniform pressure on the panels to improve adhesion to the substrate and then use a screed to check the planarity of the entire surface.

Non-planar substrates: using a mason's trowel, apply a uniform bead of adhesive around the perimeter of the panel, leaving an area of about 2 cm uncoated, so that the material will spread evenly without seeping out from under the edges of the panel. Apply a layer of adhesive centrally on the panel, in a pattern that will ensure homogeneous and continuous coverage of over 40% of the entire panel surface. Using a float, exert a uniform pressure on the panels to improve adhesion to the substrate and then use a screed to check the planarity of the entire surface.



Plugging: 36 to 48 hours after adhering the panel to the wall, proceed to fix it firmly using as many plugs as needed to support the weight of the panel, as indicated by the manufacturer, usually 4 to 6 pieces per square metre.

Smoothing: Apply a coat of **RASOKOLL** and then embed an alkali-resistant fibreglass reinforcing mesh with the help of a flat-edged trowel. Lay the mesh vertically, overlapping sides by at least 10 cm. Apply a thin smoothing layer, until an overall coat of at least 3 to 4 mm is achieved. It is advisable to install an additional mesh around all windows, openings and any areas that are subjected to mechanical stress or impacts. The second mesh must be installed at an angle of 45° with respect to the first one, in order to improve the mechanical strength of the finishing coat. About 7 days after the application of the smoothing coat you can apply decorative finishes, following the manufacturer's instructions.

TECHNICAL DATA

PRODUCT IDENTIFICATION

Appearance	Powder
Colour	Grey
Bulk density	1.35 Kg/dm ³
Solid residue	100%
Storage (in a dry place in its original packaging)	12 months.
Customs Tariff Heading	3824 50 90

APPLICATION

	VALUE*	STANDARD
Mixing ratio	6.75 litres of water per 25 Kg powder (27±1%)	
Pot life	3 hrs	
Open time	30 min.	EN 1346
Adjustability time	40 min.	
Waiting time before finishing	7 days	
Application temperature range	+5°C to +35°C	
Classification	GP CS IV	EN 998-1



PERFORMANCE	VALUE*	STANDARD
Compressive strength after 28 days	10 N/mm ²	EN 1015-11
Flexural strength after 28 days	5 N/mm ²	EN 1015-11
Water vapour permeability coefficient	25 μ	EN 1015-19
Adhesion to concrete	1 N/mm ² FP:B	EN 1015-12
Water absorption by capillarity after 24 hrs	0.25 Kg/m ² (classe W1)	EN 1015-18
Fire reaction	class A1	EN 13501-1
Thermal conductivity (lambda λ _{10, dry})	0.5 W/m·°C (val. tabulato)	EN 1745
Initial tensile adhesion strength	2.2 N/mm ²	EN 1348
Tensile adhesion strength after heat	2.8 N/mm ²	EN 1348
Tensile adhesion strength after water immersion	0.8 N/mm ²	EN 1348

ADHESION TO EXPANDED POLYSTYRENE§	VALUE*	REQUIREMENT°	STANDARD
Dry	0.14 N/mm ²	≥0.08 N/mm ²	ETAG 004
After 2 days immersion in water + 2 hrs air exp.	0.19 N/mm ²	≥0.03 N/mm ²	ETAG 004
After 2 days immersion in water + 7 days air exp.	0.33 N/mm ²	≥0.08 N/mm ²	ETAG 004

ADHESION TO CONCRETE	VALUE*	REQUIREMENT°	STANDARD
Dry	1.28 N/mm ²	≥0.25 N/mm ²	ETAG 004
After 2 days immersion in water + 2 hrs air exp.	0.64 N/mm ²	≥0.08 N/mm ²	ETAG 004
After 2 days immersion in water + 7 days air exp.	1.02 N/mm ²	≥0.25 N/mm ²	ETAG 004

ADHESION TO BRICKS	VALUE*	REQUIREMENT°	STANDARD
Dry	0.99 N/mm ²	≥0.25 N/mm ²	ETAG 004
After 2 days immersion in water + 2 hrs air exp.	0.49 N/mm ²	≥0.08 N/mm ²	ETAG 004
After 2 days immersion in water + 7 days air exp.	1.85 N/mm ²	≥0.25 N/mm ²	ETAG 004

* Results obtained at +23°C Temperature; 50% Relative Humidity; Ventilation ≤ 2 m/sec.

§ Panel: Styrofoam IB-A®, Dow Chemicals



TECHNICAL TIPS

- **RASOKOLL** is suitable for all the applications described herein and does not require use of additional binders (such as cement, lime, gypsum and the like) or additives.
- Check that the panel surfaces are rough.
- Use only on substrates that are not subjected to continuously damp conditions or rising damp.
- Install the panels from the bottom up, positioning them in the appropriate profile.
- Place the panels in a staggered pattern and closely side by side, so as to prevent the formation of micro air currents.
- Use the product only while at a soft or plastic consistency. Once it begins to set, it becomes difficult to spread and you will need to prepare a fresh mix.
- Protect the coverings from rain or washing out for at least 24 hours and from direct sunlight and frost for at least one week.

COVERAGE

	ADHESIVE	SMOOTHING COAT
RASOKOLL	3 to 5 Kg/m ²	1 to 5 Kg/m ² per mm of thickness

SPECIFICATION

Bonding and smoothing of insulating panels and external wall insulation systems by means of a cementitious mortar such as KEDIL's **RASOKOLL**. The mortar shall be applied directly to the back of the panels using a notched trowel, to full coverage. For smoothing applications, the mortar shall be applied directly onto the panels using a flat trowel and a fibreglass mesh with alkaline-resistant primer, such as KEDIL's **KEDILNET**, shall be embedded in the mortar.

WARNINGS AND RECOMMENDATIONS



- Do not apply in ways or conditions other than those explicitly stated in this technical data sheet.

KEDIL recommends that you read the **Introductory Notes** that complete the information provided in this data sheet.

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