

Technical qualities

RASOKOL by OIKOS is a premixed mortar in powder form based on Portland Cement, quartz sands and synthetic fillers available in two versions: Fine (0,6mm) and Medio (0,8mm). It is used as a screed and as an adhesive for the realization, both on interiors and exteriors, of thermal insulation systems in facades. It can be used in attics, basements, groundfloor rooms and similar situations. It can also be used for under tiles insulation, "open view" roofs, ventilated facades, radiator niches etc. It is non inflammable and friendly to both humans and the environment.

Ideal use

Gluing of polystyrene panels (both expanded or extruded), expanded polyurethane, cork, panels in mineral fibres or similar, on walls or ceilings, on masonry bases, cement plasters, mixed mortars, concrete etc. Following the prior application of its specific primer, it can also be used on gypsum and chalk-based walls if perfectly dry. Screeding of insulation surfaces made with specific fibreglass nets. Preparation of the surface before application of finish products.

Surface preparation

Before starting the application of panels, make sure that the support or base is dry, mature, solid and homogeneous as well as sufficiently flat and free of oil, grease, dust and loose or flaking material. On interiors, in the case of slightly powdering surfaces, apply as a consolidation primer NEOFIX by OIKOS.

Finishes

Finish products from the Exterior Division.

The product

Consistency	grey-white powder
Grain size	<ul style="list-style-type: none"> Fine = 0±0,6mm Medio = 0±0,8mm
Apparent volume mass	1350 kg/m ³
Coefficient of thermal conductivity	0,41/0,47 W/mK (tabulation value)
Coefficient of vapour permeability	14μ
Water to be mixed with each sack of 25 kilos	6 litres
Workability	about 4 hours*
Allowed application temperatures	from +5°C to +35°C
Superficial screeding	after at least 24 hours* from application
Second screeding coat	after at least 24 hours*
Application of finish products	after 7 days*
Packaging	25 Kg

*Data expressed at (23±2)°C and (50±5)% of relative humidity. Lower temperatures prolong the time needed for maturing and hardening.

Warnings:

- According to DM 10-05-2004 the product properly stored shall be used within 6 months from the date of packaging printed on the sack.
- Keep the product in its original and fully intact packaging, do not dissipate the powders.
- The automatic previously set dosing of the components, the continuous and systematic controls of the used raw materials and of the ready product ensure a high quality standard, constant in time.

The application

Yield (adhesive)	Glueing in patches: approx. 4kg/m ² . Glueing over the entire surface with a toothed trowel: approximately 5kg/m ² (use an 8 – 10mm trowel)
Yield (screed)	approximately 1,3 kg/m ² for eachmm of applied thickness
Tools cleaning	Wash hands and tools with abundant clean water before the adhesive starts to set. After setting, cleaning will be difficult
Warnings	<ul style="list-style-type: none"> Do not use on metal or wooden surfaces nor on surfaces that are subject to strong movement (panels in asbestos cement fibre, wooden fibre) Do not use on particularly smooth panels or panels coated with a protective film. Do not use for thicknesses over 5mm; if needed, level the surface with RASOKOL and wait 48 hours before starting to apply the panels. On facades, on non solid surfaces such as old plasters, also fix mechanically (specific plastic mushroom bolts) Protect the completed work from rain or other washing actions for at least 24 hours, for at least 7 days from freezing and from strong direct sunlight. Do not apply on frozen bases or in any case at temperatures of less than +5°C. It is recommended not to add non pertinent products The product should only be used by professionals.

Application Method

RASOKOL should be prepared using a mixer or drill whisk on low speed, mixing approximately 6 litres of drinkable water with every sack of 25 kg of the product until a creamy, even paste has been obtained. Leave to rest for about 10 minutes before giving it a further quick whisk. The adhesive mortar that is created is usable for about 4 hours. For the method needed to glue panels, follow the instructions given by the producer of the panels. In any case, on exteriors or in case of heavy, big panels it is always advisable to fully cover the surface of the insulating panel by using a toothed trowel.

For panels of medium, small dimensions RASOKOL can be applied in patches or along the edges of the panel by using a common steel trowel. Press the panel against the surface, and if required, pat the panel against the wall to facilitate adhesion. Check the levels and uniformity of the surface by using a metal beam.

When the panels are fixed using wall plugs and screws, these should be applied immediately after the positioning of the panel or before the adhesive starts to adhere, not when adhesion has already begun. The aim of these plugs is to keep the panel steady during the adhesive setting. Approximately 24 hours after having attached the panels, apply an even thickness of about 2÷3mm of RASOKOL, and using a steel trowel, sink the fibreglass net into this layer, overlapping the sections of net by about 10cm on each side. A further coat of RASOKOL can be applied after about 24 hours and given a troweled finish as with normal plaster. Further coats of finish products can be applied only once the surface has fully matured.

Final performances according to ETAG 004

Water absorption	<ul style="list-style-type: none"> • < 0,2 kg/mm² after 1 h • < 0,3 kg/mm² after 24 h
Adhesion to concrete base	<ul style="list-style-type: none"> • >1,5 N/mm² dry • >0,5 N/mm² wet after 2 hours drying • >1,5 N/mm² wet after 7 days drying
Adhesion to brickwork base	<ul style="list-style-type: none"> • >0,5 N/mm² dry • >0,4 N/mm² wet after 2 hours drying • >0,5 N/mm² wet after 7 days drying
Adhesion to plaster base	<ul style="list-style-type: none"> • >0,5 N/mm² dry • >0,4 N/mm² wet after 2 hours drying • >0,5 N/mm² wet after 7 days drying
Adhesion to insulating panels (EPS)	<ul style="list-style-type: none"> • >0,1 N/mm² dry • >0,05 N/mm² wet after 2 hours drying • >0,1 N/mm² wet after 7 days drying
Resistance to flexing	3,5N/mm ²
Resistance to compression	8,5N/mm ²
Resistance to humidity	excellent
Resistance to ageing	excellent

Safety information

The product does not contain toxic solvents, aromatics or chlorides. There is no risk of any dangerous polymerisation. The product is classified as hazardous pursuant to the provisions set forth in the Regulations (CE) 1272/2008 (CLP) and subsequent amendments and supplements. Before use, consult the safety data sheet and take note of the instructions shown on the packaging. Cr VI content less than 2 p.p.m. No special arrangements are required for the storage and movement of the product; the containers, residue, eventual spilt material should be disposed of in accordance with the regional and national regulations in force at that time. Transportation must be carried out in accordance with international agreements. Customs classification: 3824 50 90.

Specifications

Clean the surface to be treated, removing any loose or flaking material. New surfaces must be thoroughly dry and mature. In the case of powdering surfaces, use a sealer such as NEOKRYLL by OIKOS. Apply an adhesive such as RASOKOL by OIKOS to glue insulation panels and to screed and cover reinforcing fibre glass nets. Wait 7 days before applying finish products. All must be carried out in accordance with the norms of application, at a cost of m². inclusive of materials and labour. Scaffolding not included.