

MORTAR FOR A GENERAL FOR RENDERING AND PLASTERING (GP) (CS IV W2) UNI EN 998-1

DESCRIPTION:

ISOL CEM is a premixed mortar in powder form based on Portland cement, quartz sand and synthetic additives selected. It is used as an adhesive and leveling for the construction, in internal and external thermal insulation systems "coat", external façades, in attic spaces, basements, taverns, etc.. Also used in insulation tile, roofs "on demand", ventilated facades, heating niches, etc. ..

Available:

- White or gray in color,
- Dust with technology,
- With different particle sizes (0.6 mm/0.8 mm/1.0 mm).

USE:

Bonding of polystyrene (expanded or extruded), polystyrene, cork panels in mineral fibers or equivalent, in walls or ceilings, foundations masonry, cement plaster, mortar, concrete, etc. .. After the application of the specific primers can also be used on substrates in gypsum or plaster, if perfectly dry.

Shaving the insulating surfaces realized through the use therein of a special reinforcing mesh fiberglass. Preparation for any finishing treatments.

PREPARATION OF SUBSTRATES:

Before starting the installation of the plates ensure that the foundations are mature, firm and solid, sufficiently flat, free of oil, grease, dust, loose parts, paint and dirt. In the interior, the walls slightly "dusting" can be covered also after treatment with appropriate primer consolidating "ANTEPRIMER XP".

PREPARATION OF MORTAR:

ISOL CEM is mixed by a mixer or a drill at low speed fitted with whip, with about 6 liters of clean water per bag of 25 kg of the product, until the mixture is creamy, smooth and free of lumps. Let the mixture stand for about 10 minutes. Stir briefly and begin operations. The adhesive mortar obtained is usable for about 4 hours.

AND APPLICATION OF ADHESIVE BONDING:

The implementing rules vary depending on several factors, such as the flatness of the laying surface. If the application of the panels takes place directly on the tile (poor flatness), both indoors and outdoors, applied by trowel a bead of adhesive along the entire perimeter of the panel and also a cord to "X" in the center of the panel (dimensions umbilical : width $5 \div 8$ cm and a thickness of $2 \div 3$ cm). In interior panels or with small to medium size, ISOL CEM can also be applied to points (a palm of width), with a normal steel spatula type trowel. Then press the panel against the surface, possibly knocking, adhere well to the adhesive mortar to the substrate. Always check that the minimum area of bonding of the panel is greater than 40% of the total area.

In external, leveled on substrates such as plaster, concrete or reinforced concrete, recommend to apply the adhesive over the entire surface of the panel with a notched trowel of 10 mm. Also check the instructions provided by the manufacturer of the panels, but in external or heavy panels or large it is always recommended to cover the entire surface of the insulating panel by applying with a notched trowel. During the placement of the panels check the flatness of the surface by metal straightedge.

In external walls is also required additional fixing of the panels using ANTEFIXER, appropriate expansion bolts, with the purpose of holding the panel when the adhesive sets. These plugs must be applied immediately after placement and the beating of the panel, ie before the adhesive has begun to set and not to grip started. ISOL CEM applied on panels EPS 100 white does not necessarily require tessellation by ANTEFIXER, after verifying the consistency of the substrate to be clean, dry, seasoned solid and level surface.

PANEL WALLS:

After at least 24 hours after the laying of panels, using a notched trowel to 10 mm, a thickness of ISOL CEM applied on the whole panel and cover with ANTERETE, network fiberglass. Through "trowel smooth" steel "drown" the network by incorporating into the adhesive. In the junctions overlap the edges of the network to about 10 cm.

A subsequent additional layer of ISOL CEM thickness of about 2 to 3 mm, should be applied with a notched trowel to 8

mm after 24 hours and possibly "floated to the civil society." Additional finishes can be applied only after curing (about three weeks).

CONSUMPTION AS ADHESIVE:

Bonding "points" 3-4 kg / m². Bonding over the entire surface with a notched trowel, 4-5 kg / m² (use spatula to 8 or 10 mm).

CONSUMPTION AS SKIM COAT:

1.3 to 1.4 kg / m² per mm of thickness applied (recommended thickness: 4 mm in two hands)

CLEANING:

Wash hands and equipment thoroughly with clean water before the adhesive begins to grip; then the cleaning will be difficult.

HEALTH AND SAFETY:

The product is not toxic, but the Portland cement content can cause irritation to skin and eyes. Do not breathe dust and protect themselves adequately with gloves, protective clothing and goggles. For more information, see the Safety Data Sheet.

TECHNICAL DATA	
Consistency	Gray or white powder
Grit	0÷0,6 mm. 0÷0,8 mm. 0÷1,0 mm.
Density of mix	1350 kg/m ³
Coefficient of thermal conductivity:	0,41/0,47 W/mK (tabulated value)
Coefficient of permeability to water vapor:	20 µ
Mixing water for every 25 kg bag	6 liters
Pot Life	about 4 hours *
Application temperature range	from +5°C to +35 °C
Execution shaving surface	after at least 24 hours after application
Execution second coat of shaving	after about 24 hours *
Application of any finish	after 14 days *
* Figures expressed at (20 ± 2) ° C and (65 ± 5)% relative humidity. Lower temperatures increase the times of maturation and hardening	

FINAL PERFORMANCE IN ETAG 004	
Water absorption	— after 90min < 0,2 kg/m ² (W2) — after 24 h < 0,3 kg/m ²
Adhesion to concrete substrate	— Dry> 1.5 N / mm ² — wet after 2 h Drying> 0.5 N / mm ² — wet after 7 days. Drying> 1.5 N / mm ²
Adhesion to subfloor tile	— Dry> 0.5 N / mm ² — wet after 2 h Drying> 0.4 N / mm ² — wet after 7 days. Drying> 0.5 N / mm ²
Adhesion to substrate plaster	— Dry> 0.5 N / mm ² — wet after 2 h Drying> 0.4 N / mm ² — wet after 7 days. Drying> 0.5 N / mm ²
Membership insulation board (EPS)	— Dry ≥ 0.1 N / mm ² — wet after 2 h of drying ≥ 0.05 N / mm ² — wet after 7 days. drying ≥ 0.1 N / mm ²
Flexural strength	3.5 N / mm ²
Compressive strength	8.5 N / mm ² (CS IV)
resistance to moisture	excellent
resistance to aging	excellent

HAZARD CLASSIFICATION:

Refer to the safety data sheet.

CUSTOMS CLASS:

3824 50 90

INFORMATION PURSUANT TO THE D.M. 10/05/2004:

- Product conforming to DM 10/05/2004. Content of Cr VI less than 2 p.p.m.
- PACKAGING DATA: Reported on the side of the bag
- MATURITY DATE: see section STORAGE

SUPPLY:

Paper bags 25 kg each made of cellophane-wrapped wooden pallets to lose.

STORAGE:

ISOL CEM must be kept in original packaging intact, properly protected from moisture. The product is properly stored, must be used within 6 months and 12 months if gray white from production date stamped on the bag.

QUALITY:

The automatic dosing and predetermined components, the continuous and systematic checks on raw materials and finished products, ensuring a high standard of quality and consistency over time.

WARNINGS:

-Do not use on metal, wood, plastic, or subject to strong movements. -Do not use panels for particularly smooth or covered with protective film. - Do not use in thicknesses greater than 5 mm, if necessary, before leveling the surface with ANTETIX and wait 48 hours before you begin the installation of the panels. - In external facades and interiors of old plaster also inconsistent, apply in combination with the mechanical fixing ANTEFIXER (Special anchors with mushroom head in plastic). - For applications of cellular concrete walls is recommended to regularize the absorption by a coat of "ANTEPRIMER XP". - Protect the work carried out for at least 24 hours from rain water and for at least 7 days from frost and direct sunlight. - Do not apply ice or other substrates at ambient temperatures below + 5 ° C. - It is recommended not to add third-party products.

PRODUCT ADDRESSED TO A PROFESSIONAL USE

The above statements come from our current best experience. But since the site conditions vary greatly recommend the user to verify with practical tests that the product is suitable for use required and in any case, he assumes any liability that may arise from the use.