



ard f.lli raccanello s.p.a. industria vernici e smalti

TECHNICAL SHEET **409**

Code 1.967.0610

ardcoat L10Glass

Lightweight filler adhesive for thermal insulation systems (ETICS)

GENERAL PROPERTIES

ARDCOAT L10 is a ready-mix based on premier quality Portland cement, selected sands, light mineral inert and additives suitable for the bonding & filling (interiors & exteriors) of thermal insulation panels such as EPS, Stiferite, mineral wool (glass & rock) or cork intended for the realization of thermal insulation systems.

The remarkable mechanical properties guarantee a solid adhesion to insulating panels (which are notoriously subject to creeping) as well as the most common mural substrates such as bricks, plastered walls, etc. Furthermore, the particular granulometry & optimum workability result in a broad spectrum filling mortar which offers an excellent spreading capacity & thickness.

ARDCOAT L10 is perfect for fillings (with/without reinforcements) on coplanar surfaces with old paintwork or bonded coatings which present a good adherence.

INSTRUCTIONS

Substrate preparation:

Surfaces must be dry, coherent & free of dust, grease, oil, wax etc. Concrete must be free of detaching agents.

- The substrate must have a uniform water absorption; if surface irregularities exceed 1 cm (thick), even the surface with ARDPLAN BS or AS according to the thickness required.
- Hot & dry climates: we recommend dampening the substrate before application.
- Chalky surfaces must be treated with ISOREST diluted appropriately.

Application:

- Thoroughly mix a 20 kg pack of ARDCOAT L10 with 5-6 litres of clean water avoiding the formation of lumps (we suggest using a mechanical mixer at a low speed) until homogeneous and of plastic like consistency.
- Leave to rest for at least 10 minutes, remix delicately (without adding water) & proceed with the application.
- Use ARDCOAT L10 within 4 hrs of mixture preparation.
- Do not apply below 5°C or above 30°C.

- Do not apply on frozen substrates (or if frost *is predicted* within 24 hrs). Avoid extremely wet surfaces, strong sunlight & winds.
- Do not apply directly on *plaster* based surfaces.
- Use a trowel or spatula to apply ARDCOAT L10 to the insulating panels and “stick” them on the substrate.
- Allow at least 48 hrs & smooth the surface with ARDCOAT L10, position the alkali resistant reinforced mesh and apply a second filling which *must cover the mesh perfectly*. The recommended final finish should be at least 5-8 mm thick.
- Allow at least 2 days before proceeding with the subsequent dowelling. After 5 - 6 days proceed with the desired finishing coat.
- Store at ambient temperature & protect against humidity.
- Wash equipment with water before the mortar begins to harden.
- The mixed product is highly alkaline: use gloves & protective eyewear. **Eye contact:** wash eyes immediately with plenty of water.
- Refer to the PSDS for further details.

TECHNICAL PROPERTIES (UNI EN 998-1 conformity)	MAX AGGREGATE SIZE	1 mm
	APPARENT VOLUME MASS OF POWDER	1200 kg/m³
	HARDENED MORTAR VOLUMIC MASS AFTER 28 DAYS	1200 kg/m³
	COMPRESSION RESISTANCE AFTER 28 DAYS	7 N/mm²
	FLEXURE RESISTANCE AFTER 28 DAYS	2,5 N/mm²
	CAPILLARY WATER ABSORPTION	<0,22 kg/m² 0,5 (W1)
	WATER VAPOUR PERMEABILITY μ	approx. 20
	DYNAMIC ELASTIC MODULUS AFTER 28 DAYS	5000 N/mm²
	ADHESION TO CONCRETE SUBSTRATES	0,8 N/mm² type B fracture
	ADHESION TO EPS SUBSTRATE	>0,1 N/ mm² type C fracture
	POT- LIFE	Max 4 hrs
	THERMAL CONDUCTIVITY λ	0,40 W/mk
	FLASH POINT	Eclass A1
	VOC	<0,001%

YIELD

The yield varies according to the substrate's planarity and filling thickness - approx 8-9 kg/m² of powdered product.

TENDER SPECIFICATION ITEM

ETICS' adhesive

Application on treated surfaces of cement based adhesive for ETICS', synthetic unsaponifiable copolymers & selected quartz flour, like ARDCOAT L10 with a minimum consumption of 4-6 kg/m² of powdered product.

€/m²

ETICS' filler

Application on treated insulating surfaces of an adhesive for cement based insulation systems (ETICS) synthetic unsaponifiable copolymers & selected quartz flour, type ARDCOAT L10 with a min consumption of 5,2 kg/m² of powdered product for a 5mm thickness.

€/m²

Reinforced filler

Application on treated surfaces of a cement based filler, synthetic unsaponifiable copolymers & selected quartz flour, type ARDCOAT L10 with a min consumption of 5,2 kg/m² of powdered product for a 5mm thickness.

€/m²

The data herein were correct at the time of Quality Control and refer to standardized environmental conditions. The mechanical resistance refers to standardized conditions and may differ to those in construction sites. The same are to be considered as a guide.
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