



Code. 1.967.0620

ardcoat L10EPS

lightweight adhesive filler with EPS microspheres for thermal insulation systems, in compliance with ETAG 004

GENERAL PROPERTIES

ARDCOAT L10EPS is a ready-mix based on premier quality white cement, calcareous inert, microspheres of EPS and additives, ideal for bonding and filling of thermal insulation panels such as EPS, XPS, Stiferite, mineral wool (glass and rock) or cork, intended for the realization of thermal insulation systems. Furthermore, the particular granulometry and the optimum workability make ARDCOAT L10EPS a broad spectrum filling mortar with an excellent spreading capacity and thickness. ARDCOAT L10EPS is compliant with the requirements listed in the European technical guide ETAG 004 as adhesive and filler for thermal insulation systems.

INSTRUCTIONS

Substrate preparation

- surfaces must be dry, ben coherent, free of dust and without grease, oil, wax and, in case of concrete, from detaching agents.
- the substrate must have an uniform water absorption and not must have irregularities exceed 1 cm; on the contrary uniform the surface with ARDPLAN AS/BS.
- with hot and dry climate we recommend to dampen the substrate before application.
- with chalky surfaces apply a layer of ISOREST appropriately diluted.

Application

- Thoroughly mix a 20 kg pack of ARDCOAT L10EPS with 6,0 litri of clean water avoiding the formation of lumps, until obtaining an homogeneous mix and of plastic like consistency. For this we suggest using a mechanical mixer at a low speed.
- Leave to rest for at least 10 minutes, remix delicately without adding water and proceeding with the application.
- Use ARDCOAT L10EPS within 4 hrs from mixture preparation.
- Do not apply below 5°C or above 35°C. Do not apply on frozen substrates or if frost is predicted within 24 hrs after the application;

Avoid extremely wet surfaces, strong sunlight & winds.

- Do not apply directly on plaster based surfaces.
- Apply ARDCOAT L10EPS with trowel or spatula on the surface of the insulating panels and stick them on the substrate.
- Allow at least 48 hrs from the application of insulating panels, smooth the surface with ARDCOAT L10EPS, position the alkali resistant reinforced mesh and apply a second filling which covered the mesh perfectly. The recommended final finish should be at least 3-5 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, in case of eye contact wash immediately with water. For further details refer to the PSDS.

TECHNICAL PROPERTIES
UNI EN 998-1
conformity

CLASSIFICATION WITH UNI EN 998-1	LW CS II - W2
MAX AGGREGATE SIZE	1 mm
HARDENED MORTAR VOLUMIC MASS AFTER 28 DAYS	1100 kg/m³
COMPRESSION RESISTANCE AFTER 28 DAYS	3,5 N/mm²
FLEXURE RESISTANCE AFTER 28 DAYS	1,7 N/mm²
CAPILLARY WATER ABSORPTION	0,2 kg/m²min^{0.5} (W2)
WATER VAPOUR PERMEABILITY μ	<20
DYNAMIC ELASTIC MODULUS AFTER 28 DAYS	4000 N/mm²
ADHESION TO CONCRETE SUBSTRATES	>0,3 N/mm² type B fracture
ADHESION TO EPS SUBSTRATE	>0,1 N/mm² type C fracture
USEFUL LIFE OF THE MIX (Pot-Life)	4 hrs max
THERMAL CONDUCTIVITY ($\lambda_{10,DRY}$ -Table value, P=50%)	0,33 W/mK
FLASH POINT	Eclass A1

YIELD

The yield of ARDCOAT L10EPS varies according to the substrate porosity and to the filling thickness. Approximately 6 kg / m² of powder product is expected to be used, considering its use both as an adhesive and filler in the thermal insulation system.

TENDER SPECIFICATION ITEM

ADHESIVE FOR THERMAL INSULATION SYSTEM

Application on treated surfaces, of cement based adhesive for ETICS', synthetic unsaponifiable copolymers & selected quartz flour, as ARDCOAT L10EPS with a consumption of about 3 kg/m² of powdered product.
€/m²

FILLER FOR THERMAL INSULATION SYSTEM

Application on treated insulating surfaces of an adhesive for cement based insulation systems (ETICS) synthetic unsaponifiable copolymers & selected quartz flour, type ARDCOAT L10EPS with a min consumption of 3 kg/m² of powdered product for a 3 mm thickness.

€/m²

REINFORCED FILLER

Application on treated surfaces of a cement based filler, synthetic unsaponifiable copolymers & selected quartz flour, type ARDCOAT L10EPS with a min consumption of 3 kg/m² of powdered product for a 3 mm 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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