adefix 12

technical sheet - ed. 04/2024

Adhesive/skim coat in powder form

DESCRIPTION

Eco-friendly mineral adhesive/skim coat in powder form with superb adhesive properties and resistance to freeze-thaw cycles. Made of unsaponifiable resins, high resistance Portland cement and selected sands. Superb filling capacity and trowel applicability. Suitable for gluing, skim coats (even mesh-reinforced), cracked plaster, reinforced concrete, insulating panels. The TVOC Class A+ makes it suitable for complying with Leed Breeam CAM protocols. For professional users only.

MAIN PROPERTIES

- Adhesive for external thermal insulation system;
- For reinforced skim coats

TECHNICAL DATA	
Classification (UNI 8681 / UNI 8682)	One-pack, matt, physical drying powdered plaster for base coat made of cement, vinyl copolymers and lime stone (only ADEFIX COARSE).
Granulometry (EN 13300 / EN 1062)	Normal: 0.8 mm; Coarse: 1.2 mm
Reaction to fire (EN 13501-1)	Class A1
Capillary absorption and perm. Water (class W) (EN 1015-18)	Class W2 (C ≤ 0.2 Kg/m² min 0.5)
Adhesion (EN 1015-12)	>0.5 N/mm² - FP:B (EN 1015-12)
Open time (EN 1346)	20 min
Thermal conductivity (λ) (EN 1745)	0.47 W/mK
Water vapour transmission (μ) (EN 1015-19)	5 - 20
Bending resistance	4.5 N/mm2
Compression resistance	10 N/mm², CS IV (≥6 N/mm²)
Apparent bulk volume	1400 ± 50 g/l
Bulk volume in paste	1450 ± 50 g/l (hardened product)
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Type of binder	Cement-based (UNI 8681: TA)
Solid content	100%
Mixing Ratio	22-24% with water; 5.5-6 Litres per 25Kg package
Maximum application thickness	Fine: 5mm in two coats Coarse: 7mm in two coats
Drying time	24-48 hours between coats. At least 10 days before covering. Drying time depends greatly on environmental conditions.
VOC	Not covered by Directive 2004/42/CE

CHARACTERISTICS	
Pot-life of mixture	About 3 hours
Coverage	1.3 kg/m2 per mm of thickness; For gluing: 4-4.5 Kg/m2 - For skim coating: 4-4.5 Kg/m2
Overpaintable	Compatibility with other products: compatible with all water-based products
Colour range	Grey - White
Dilution	Water

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APPLICATION

Suitable Substrates:
Cement-based plasters, painted plasters, exposed reinforced concrete, precast concrete panels, fibre cement, bricks, hollow bricks, insulating panels

Preparation of the Substrate:
All supports must be carefully prepared by manual brushing and/or washing, ensuring that they are free from efflorescence, loose parts, release agents, waxes, oils or anything else that could compromise adhesion. Wait for the support to dry then apply ADEFIX.
Consolidate the support with fixative; evaluate based on the state and nature of the same: PRIMACRIL for new supports, MICRALICA in the presence of old paint; NITROFIX for supports that dust as long as they do not have a thermal coating. In case of non-homogeneous supports or with evident cracks, it is recommended to insert the Armatex C1 fiberglass mesh between the first and second coat.

Ambient Conditions:
min +5°C max +35°C

Type of Equipment:
spatula, mason's trowel, finishing trowel, low speed mixer

Application Procedure:
To glue insulating panels
prepare the adhesive mortar by mixing 25 kg of ADEFIX12 with 5.5 - 6 litres of water for at least 5' using a mechanical mixer until it is smooth and free of lumps and being careful not to overly heat the mixture. Let the mixture stand for 5', remix and then proceed with application. Apply along the perimeter of the insulating slab and in dabs in the centre.
For skim coating
prepare the smoothing mortar by mixing 25 kg of ADEFIX with 6 litres of water for at least 5', until it is smooth and free of lumps, and being careful not to overly heat the mixture. Let the mixture stand for 5', remix and then proceed with application. Using a metal trowel, apply the mixture so that the surface is adequately uniform.
For reinforced skim coats
prepare the smoothing mortar by mixing 25 kg of ADEFIX with 6 litres of water for at least 5', until it is smooth and free of lumps, and being careful not to overly heat the mixture. Let the mixture stand for 5', remix and then proceed with application. Using a metal trowel, apply the mixture so that the surface is adequately uniform. While the mortar is still wet, apply the Armatex (IVAS) glass fibre mesh fabric, pull it taut and embed it into the fresh mortar with the help of a trowel or spatula, making sure to overlap the sheets by at least 10 cm and trying to avoid the formation of blisters and creases. The mesh should be completely covered by the mortar and, in any case, not visible .
ADEFIX 12 Coarse (1.2mm) version is applicable with continuous mechanical plastering such as PFT G4 or similar.

Notes:
Do not apply on surfaces that are in direct sunlight, frozen or very hot. Do not apply when it is very windy or when there is fog or rain. The conditions must last at least 2 days after application.
Not suitable for bonding printed eps panels.

STORAGE

Disposal and safety indications:
Dispose of in accordance with local regulations.
For information on possible hazards, refer to the safety data sheet

Packaging:
25 kg bags

Storage:
1 year on a pallet and when stored in a dry place in undamaged packages at between 5 and 30°C.

TECHNOLOGIES/CERTIFICATIO

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This Technical Sheet is compiled to the best of our technical/scientific knowledge. Nevertheless, it is not binding and does not imply that we are responsible, as the conditions of use are outside our control. It is recommended that the product is always checked as being suitable for the specific application.