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per grandi progetti.

SCHEDA TECNICA



ELASTOCEM A+B GROUND

TWO-COMPONENT CEMENT
MEMBRANE



PRODUCT

Flexible, two-component cement membrane for waterproofing and anti-carbonation protection of wall foundations, channels, swimming pools and concrete surfaces subject to positive and negative hydraulic lift.

CARATTERISTICHE

It is easy to prepare and with excellent workability; it has great flexibility, combined with high mechanical strength and adhesion to substrates. Totally waterproof to positive pressure, while it is waterproof to the negative boost up to 1.5 atmospheres (about 15 meters of water column). It is resistant to soluble salts (chlorides, sulfates). It is present in the land or in the sea water. It protects from carbonation.

WHERE TO USE

Waterproofing of foundation walls, canals, pools and concrete surfaces subject to negative and positive hydraulic pressures. Waterproofing and anti-carbonation protection of plaster and concrete.

SUBSTRATES

Foundation walls, concrete, plaster and cement mortars, ceramics.

CONSUMPTION

By trowel/roll: 1,6 kg/sqm per mm of thickness.
By spray: 2,2 kg/sqm per mm of thickness

PACKAGING

Component A:

- 24 kg bags on pallet of 960 kg.

Component B:

- 10 kg jerrycans on pallet of 400 kg.

STORAGE

It can be stored 12 months in a dry place in its original packaging

ITEM SPECIFICATIONS

The waterproofing of foundation walls, canals, pools and concrete surfaces subject to negative and positive hydraulic pressures, must be realized with a specific waterproofing mortar with anti-carbonation effect, such as Elastocem A+B Ground by Edilcol Italia, to be applied in a thickness not lower than 2 mm, which presents, at 28 days, an adhesion to concrete $\geq 1,0$ N/sqmm.

PREPARATION of the substrate

- Check that the surfaces to be treated are clean, consistent, moist (R.H. $\approx$ 6%) and without fissures
- Repair the damaged areas using the structural recovery mortar MX 300 Tixotropic (in class R3) o MX 300 Tixotropic Plus (in class R4) (see their technical data sheets).

Before applying Elastocem A + B Ground to improve the adhesion, apply the Primer Ground, diluted with water in the ratio 1: 1.

APPLICATION

- Mix a bag of Elastocem Ground Component A only with the content of can Component B (ratio 2,4:1), either by hand or with a mixer at a low number of turns, until obtaining a homogeneous or plastic mixture. Leave it rest for 2-3 minutes, mix it again and then apply manually with a trowel / roller or spray.
- Lay the first layer of product with a thickness from 1 to 2 mm and then, after 5-6 hours, once hardened, apply the second layer.
- For spray applications: in presence of positive pressure, finishing with a trowel at least the first coat; in presence of counterforce, finishing with a trowel each of the two coats in order to ensure a well-closed uniform layer.

RECOMMENDATIONS

Do not add other products to Elastocem A+B and apply the second coat only after the first one is completely dry.

Do not use for drinkable water tanks.

Do not apply on bituminous sheaths.

Do not apply outside on too sunny or windy days, on frozen surfaces, while ice is melting or with the risk of frost within 24 hours and with temperatures lower than +5 °C or higher than +35 °C.

Protect Elastocem A+B Ground from rain within 24 hours after application or from a first too rapid evaporation, which can cause fissures, by dampening the treated surfaces. Wait for its complete drying to cover the surfaces with deformable adhesives (K50 Flex) or to apply elastic paints.

Although the details contained in this product report correspond to the best of our current experience, all the above information must be confirmed after practical applications. Anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of product. The values given in the technical data derived from tests conducted in laboratory, in a controlled environment, so they may be greatly modified by the conditions of installation.

DATI TECNICI

Rev. 01 - 02/2016

Appearance:	Component A: grey powder Component B: white latex
Composition:	Component A: special cements, quartziferous aggregates, additives Component B: resin in water dispersion
Particle size:	$\leq$ 0,6 mm
Application temperature:	+ 5°C / + 35°C
Mixing ratio:	2,4:1 (powder:liquid)
Pot life:	$\approx$ 50 minutes
Thickness of each layer:	1 - 2 mm (max 2 layers)
Maximum thickness achieved:	$\approx$ 4 mm
Waiting time between 1st and 2nd layer:	4 - 5 hours
Waiting time for laying tiles:	3 - 4 days

Performance characteristics according to EN 1504-2		Performance characteristics according to EN 14891	
Bond strength to concrete (28 days):	$\geq$ 1,0 N/sqmm (EN 1542)	Initial bonding:	$>$ 0,5 N/sqmm (EN 14891-A.6.2)
Bond strength to concrete after immersion in water:	$\geq$ 0,5 N/sqmm (EN 1542)	Bonding after immersion in water:	$>$ 0,5 N/sqmm (EN 14891-A.6.3)
Thermal compatibility: adhesion after freeze-thaw with de-icing salts	$\geq$ 0,8 N/sqmm (EN 1542)	Bonding after heat exposure:	$>$ 0,5 N/sqmm (EN 14891-A.6.5)
Crack bridging ability at -20°C: • static	(EN 1062-7) Classe A3 (-20°C)	Bonding after freeze/thaw cycles:	$>$ 0,5 N/sqmm (EN 14891-A.6.6)
Permeability to carbon dioxide (CO ₂), S _{DCO2} :	$>$ 50 m (EN 1062-6)	Bonding after immersion in wateralkaline:	$>$ 0,5 N/sqmm (EN 14891-A.6.9)
Permeability to carbon dioxide (CO ₂), S _{DCO2} :	Classe I (EN ISO 7783-1)	Impermeability to water pressure:	$>$ 0,5 N/sqmm (EN 14891-A.6.8)
Permeability to water vapour:	$\leq$ 0,05 Kg m ⁻² h ^{-0,5} (EN 1062-3)	Waterproofing to water under pressure:	no penetration (EN 14891-A.7)
Impermeability to water in under pressure (5 bar for 3 days) of positive pressure	No penetration.	Crack bridging at +20°C:	$>$ 0,75 mm (EN 14891-A.8.2)
Impermeability to water in under pressure (1.5 bar) of negative pressure	No penetration	Crack bridging at -20°C:	$>$ 0,75 mm (EN 14891-A.8.3)
Reaction to fire:	Class A1 (EN 13501)	The adhesion values were determined according to EN 14891 with Elastocem A+B Ground and cementitious adhesive type C2 according to EN 12004	
Hazard classification:	none (CE 99/45)		