



# 610 Techmonotop Passivating

## Primer active armor protection and bridge for concrete mortar

### Description:

TECHMONOTOP 610 is a primer active passivating that not only restores high pH environment but also contains corrosion-inhibiting additives for protection of reinforcing steel. may be used as a bridge prior to the application of mortar repair.

Once mixed with water can be applied with a brush on the clean armed or directly on the wetted concrete surface in case of use as connecting bridge.

### Scope:

Used as a primer for corrosion reinforcing steel:

- When the steel is visible and concrete cover is less than 10 mm.
- When concrete is contaminated with chlorides.
- In marine environments contaminated with chlorides or when specified extra protection for the armor.
- When work organization can not apply mortar immediately after cleaning steel.

TECHMONOTOP 610 can be used for passivating increase adhesion and ease of application hand-applied mortar in extreme or large thicknesses.

Contact the Technical Department any application not covered by this relationship.

### Properties:

- excellent corrosion inhibiting properties as reinstates an environment of high pH.
- Contains additives inhibitors to protect steel.
- Polymer modified to increase adhesion steel.
- Does not affect coated steel anchor.
- Perfect compatibility with reinforced steel and repair mortars.
- Fast curing: Save time.

- One component, only to be mixed with water.
- Hardens in wet areas and closed.
- Multi-use: can be used as a bridge to increase the adherence and the application properties Techmo of mortars.
- White color for easy control of the site application.
- Supplied in resealable plastic containers.
- Low chromate (Cr (VI) <2 ppm).

### Base material:

Mixture of Portland cement, graded fine aggregate carefully graduated special additives and polymers redispersible powder.

### Mode of Use:

(a) Preparation of the surface of the armor:

In case of the light armatures must desoxidarse Sandblasting, grade SA 2 according ISO 8501-1 / ISO 12944-4 in the entire circumference of the assembly.

(b) Preparation of the concrete surface:

It should be firm (resistant minimum tensile strength of 1.5 N/mm<sup>2</sup>) and be free of dust, grease, oil, paint residues old, etc.

Remove residual curators, release agents, deteriorated concrete and grout surface, using mechanical methods that do not impose vibration or impact to the support. Blasting is recommended sand or water under pressure.

Carefully wetting the concrete surface, avoiding formation of standing water.

(c) Mixing: Pour into a clean vessel the quantity of add enough water and dust. required and mix with type drill M17 fitted with stirrer, at low speeds



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(400 rpm) until a creamy consistency without lumps. Mixing water is from 0.22 to 0.26 liters per Kg of powder according to the desired consistency. Let the mixture stand for 5 minutes to produce complete saturation of the mixture. remix briefly. No knead again if timed product handling.

#### (d) Application:

Surface temperature must be at least +5 ° C and a maximum of +35 ° C, taking care that the temperature be uniform during application and during at least 24 hours thereafter for optimum curing of the product.

As the armed primer: Apply the mixed material in a homogeneous layer of a minimum thickness of 1 mm (about 1.5 kg/m<sup>2</sup>) at the circumference of mortality armed using a soft bristle brush.

When the first coat has hardened sufficiently (approx. 30 - 90 minutes) applying a second layer of 1 mm thick.

As a bridge: Apply the mixed material onto concrete surface using a water saturated haired brush.

Normal consumption is approx. 2 -3 kg/m<sup>2</sup>.

Apply mortar on the bridge always fresh binding on fresh.

#### (e) Curing:

Protect from rain until the product has set. Cleaning tools and equipments While fresh can be cleaned with water. In the case of the material is hardened only be cleaned mechanically.

#### Consumption:

Product approximately 1.5 kg/m<sup>2</sup> per millimeter of thickness. These figures are theoretical and depend on the roughness support and other conditions of each work.

To determine the exact consumption must be representative tests on site.

#### Presentation:

Resealable plastic containers of 4 and 15 kg

#### Storage:

Shelf life 12 months in a cool, dry and closed original containers.

#### Handling and transport:

For handling this product should be observed usual precautions in handling products chemicals, such as not eating, smoking or drinking during work and wash hands before breaks and at the end work.

Available specific information security in the handling and transportation of this product in the Road Data safety. Disposal of the product and its container must be in According to current legislation and is the responsibility of Product final holder.

It should be noted

- Do not apply on substrates at temperatures below
- ° C or expected to fall below the
- ° C within 24 hours.
- Do not apply on substrates at temperatures below
- ° C or above +35 ° C.
- Do not add cement, sand or other substances that may affect product properties.
- Do not add water or mortar that has lost consistency or remix.



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Features	Test Method	Unit	Values
Aspect	-	-	gray powder
Thicknesses applicable	-	mm	min. 2 (in two layers)
Density kneading:	-	g/cm <sup>3</sup>	approx. 1.8
Mixing water:	-	l/kg	approx. 0,22 - 0,26
Working time:	-	minutes	approx. 60
Application temperature (support and material):	-	°C	+5 to +35
Pullout resistance of the coated armor:		-%	□ 80
ZTV-Sib90 Compliance:	Comparison vs. Uncoated		
Total halogen-content:		% By weight	□ 0,05
Corrosion-simulation:		A/cm <sup>2</sup>	□ 10
Corrosion-resistance:		mm	□ 1 (migration of the oxide layer under starting at the edges uncoated)
Accelerated-aging (atmospheric):	TL BE-PCC		No corrosion / No delamination / Max. fissure width 0.1mm
10 cycles DIN 50017			
10 cycles DIN 50018			
DIN 50021 120 hours			
The curing times are measured at 21 ° C and 60% RH, except those tests that mark different parameters. temperatures above and / or H.R. can shorten these times lower and vice versa. Technical data reflected are the result of statistical results and do not represent minimum guaranteed. If you want to control data can be obtained from the "Specifications of sale" of the product to our Technical Department.			

