

# LAVAFER

## Corrosion-Proof Cement Slurry for Steel Reinforcement

### Description:

LAVAFER is a pre-packed kit of two parts cementitious coating. Part A is a powder consisting of hydraulic binders and special additives and part B is a liquid consisting of selected acrylic polymer and migrating inhibitor for corrosion. The two components must be mixed at the moment of use without addition of water. It is specially formulated as a protection coating primer for steel reinforcement against corrosion.

### Uses:

LAVAFER is suitable as a corrosion primer for steel reinforcement in the following applications:

- Coating for reinforcement bars before applying the cementitious repair products.
- As a Protective coating for steel reinforcement if it will be exposed for long periods.
- Can be applied as an adhesive primer for the repairing mortars or for casting new concrete onto the old one.

### Advantages:

- Excellent adhesion to steel reinforcement.
- High Protection against corrosion.
- Excellent bonding between concrete and reinforcement bars.
- Formulated for use with MATEX concrete repair products.
- High water resistant.
- High anodic passivation.

### Instructions for Use:

#### Surface Preparation:

Steel reinforcement bars should be clean from loose particles, cement dusts, grease and rust. Cleaning by steel brush would be sufficient unless deep rusting or contamination exists where sand blasting is required.

Ensure that the back side of the steel bars are cleaned as well.

#### Mixing:

LAVAFER is supplied in a pre-weighted two components kit. Pour the liquid Component (part B) into a clean container and then add the powder Component (part A) and Mix thoroughly for 3 minutes till a homogeneous lump free mix is achieved. The mixture must be applied within 45 minutes from its preparation. Avoid adding thinning water after the contents are mixed.

#### Application:

Apply LAVAFER manually with a brush to the reinforcement steel immediately after cleaning the bars. If necessary, apply second coat within 24 hours from applying the first one. The recommended minimum thickness of the applied coat should not be less than 1 mm. Allow proper coverage for the steel and ensure that the whole surface of the bars is covered, especially the back side of the steel reinforcement. Allow the applied coating to cure for 4 hours before applying the repairing mortars.

#### Standards:

LAVAFER conforms to:

- DIN 55 928 Part Sa 21/2

TECHNICAL PROPERTIES	
Appearance	: Green Dense Mix
Wet Density	: 1.45 kg/ Lt
Temp. of application	: From +5°C to +35°C
Adhesion bond to steel	: Excellent
Pot-life-time of mixture	: 40-45 minutes @ 25°C
Mixing ratio by weight	: Component A : 3 Component B : 1
pH of mixture	: 12 - 13
Adhesion to concrete after 28 days	: 2.10 N / mm <sup>2</sup>
Adhesion to steel after 28 days	: 1.85 N / mm <sup>2</sup>

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## Coverage:

LAVAFER 2.0 Kg achieves coverage of 1.35 square meter at 1.0 mm thickness.

## Packaging:

LAVAFER is supplied in pack of two components kit; 1.5 kg powder in plastic bag and 0.5 kg liquid in bottle.

## Storage Conditions:

Store in original packing in dry conditions away from direct sunlight and high humidity levels.

## Cleaning:

Clean tools with water prior to product hardening.

## Shelf Life:

LAVAFER can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

## Health and Safety:

- Use goggles and gloves during application. Do not breathe vapor of products. Use only in well ventilated areas.
- Avoid contact with eyes or skin.
- In case of contact with eyes, wash abundantly with warm water and consult a doctor immediately.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.



P.O. BOX: 29585, Dubai, UAE, Tel: +971 4 333 4140, Fax: +971 4 333 4115  
Email: info@matex.ae, www.matex-global.com