

# 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 additional 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:

- EN 1504-7

TECHNICAL PROPERTIES	
Appearance	Green Dense Mix
Wet Density	1.85 ± 0.05 kg/lit
pH of Mixture	12 – 13
Temp. of Application	From +5°C to +35°C
Potlife time of Mixture	40-45 minutes@25°C
Mixing ratio by weight	Component A : 3 Component B : 1
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>

\*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

# LAVAFER

## Coverage:

LAVAFER 2.0 Kg achieves coverage of 1.10 square meter at 1.0 mm thickness.

\*Coverage rate is an approximate value, and subject to actual site conditions.

## 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.

## Shelf Life:

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

## Cleaning:

Clean tools with water prior to product hardening. Hardened materials can only be removed mechanically.

## Health and Safety:

- Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapor or spray mist.

## FIRST AID:

Eyes:	In the event of accidental splashes, flush with warm water and seek medical advice.
Skin:	Wash skin thoroughly with soap and water
Inhalation:	Remove to fresh air, keep patient rested
Ingestion:	Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to LAVAFER Material Safety Data Sheet.

MATEX Rev.03-0223

MATEX warrants that its products are free from material and manufacturing defects. Instructions on how to use the product should be strictly followed to ensure effectivity and safe use. MATEX shall not be liable either directly or indirectly for any damages to personal, equipment or products that may occur as a consequence of the failure of any products application because it has no direct or continuous control over where or how its products are applied. It is the user's responsibility to acquire always the updated version of datasheets.

