

# LAVAPOXY RE

## Two Part Epoxy Re-profiling and Repair Fairing Coat

### Description:

LAVAPOXY RE is a solvent free, two components, coarse finish high quality epoxy based putty for repair of structural defects. It is composed of epoxy resin and specially selected fillers. When mixed it becomes Thixotropic and suitable for re-profiling of concrete surfaces, bedding, gap filling, concrete repair and for leveling minor imperfection in concrete surfaces up to 6mm thickness.

### Applications:

LAVAPOXY RE is suitable for re-profiling and repair applications including:

- Dry static crack filler up to 6 mm repairs in structural components, like bridges, industrial structures, columns, beams, foundations, walls and floors slabs.
- Touch up of concrete from 3-6 mm.
- Filling honeycombing.
- Re-profiling of expansion joints and concrete elements.
- Anchoring rebar elements vertically and horizontally.
- Repair of Concrete floors prior to epoxy, Polyurethane systems application.
- Used as bedding mortar for bridge beams or steel bridges bearing.
- Used as mortar bedding in manhole chambers.
- To re-profiling and leveling irregularities in concrete surfaces prior to applying any epoxy.

### Advantages:

- Two part pre measured kit. Easy to mix and apply.
- Excellent bond to all concrete substrates.
- Non-shrinkage, solvent free product.
- High compressive strength with excellent abrasion and impact resistance.
- Chemical resistant against oil, grease, salt, mild acids and alkalis, sewage, ammonia, etc.
- Highly smooth finished layer.

- Applicable in thicknesses up to 6 mm.
- High corrosive resistance.
- Low viscosity, non-slump. Can be easily applied on vertical and overhead surfaces.

### Instructions for Use:

#### Surface Preparation:

Preparation of cementitious surfaces for touch up should ensure the removal of all grease, contaminants, oil and loose material, for repair of honey combing on fair face. Make sure concrete surface has no curing compound film.

Before applying LAVAPOXY RE ensure that substrate is fully cured, dry and has no moisture content.

#### Mixing:

To prepare the epoxy mix, stir first the base and the hardener separately for 30 seconds. Empty the contents of part B (hardener) to part A (base) contents, and mix thoroughly for few minutes till a homogeneous lump free consistency mix is achieved. Use low speed electric drill fitted with suitable paddle for mixing. Avoid adding thinner to the mixture.

#### Application:

Apply LAVAPOXY RE manually with a trowel, filling knife or spatula to the prepared surface of concrete. The applied thickness depends on substrate profile. The range of thickness will vary from feather edge up to a maximum of 6 mm. LAVAPOXY RE mix is thixotropic and workable which makes it easier to obtain smooth finish. Ensure very clean trowel or spatula to avoid scratching in the finished coat. Ensure proper coverage and proper pushing into cracks and pin holes when repairing static cracks in concrete elements or floors. LAVAPOXY RE can be applied to floors for repair in skim coat layer or in batch repairs to defected areas.

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## Standards:

LAVAPOXY RE conforms to:

- BS 6319, Part 2, BS 6319, Part 7
- ASTM D4541

## TECHNICAL PROPERTIES

Appearance	: Light Grey
Mix Density	: 1.80 Kg. / Lt.
Temp. of application	: From +5°C to +35°C
Adhesion bond to concrete	: $\geq 1.8$ N/mm <sup>2</sup>
Application Thickness	: 3 - 6 mm
Pot life time of mixture	: 60 minutes @ 25°C
Compressive strength	: 80 N/mm <sup>2</sup> @ 7 days
Flexural strength	: 27 N/mm <sup>2</sup>
Recoating Interval	: 80- 24 hours
LAVAPOXY RE	: Chemical resistant to mild acids, alkali solutions, sea water, oils and detergents
Solid Contents	: 100%

## Coverage:

LAVAPOXY RE: 1.80 kg achieves 1.0 square meter @ 1.0 mm thickness.

## Packaging:

LAVAPOXY RE is supplied in 8 kg two part metallic containers.

## Storage Conditions:

Store in original packing in dry conditions away from direct sunlight and in temperature controlled warehouse.

## Shelf Life:

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

## Cleaning:

Clean tools with MATEX SOLVENT prior to product hardening.

## 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.
- Avoid direct contact with flames and fire.

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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.

