

# LAVAREP 2P

## Two Component Polymer Modified Cementitious Mortar

### Description:

LAVAREP 2P is a two components cement based polymer modified non shrink mortar with high plastic consistency, formulated to be used as a high quality repairing mortar. It is composed of component A (powder): high resistant hydraulic binder, silica, graded aggregate, fiber, special additives. And component B (liquid): synthetic polymer latex. Once mixed, the product will produce a high consistent, workable mortar that will turn once cured into a flexible layer with excellent mechanical properties.

### Applications:

LAVAREP 2P is designed to act as a flexible repair products in several applications including:

- General concrete repair up to 10 mm thickness per coat.
- To produce a smooth surface repair.
- As a re-profiling layer over large areas.
- For filling pinholes or honeycombing over cement surfaces.
- Repair of defected precast concrete.
- Repair in areas subject to movement.
- For fair face thin layer as a skim coat.
- To level off irregular surfaces.

### Advantages:

- Shrinkage controlled, easy to use.
- Excellent bond to all concrete substrates.
- Flexible at application.
- High impact resistant.
- Workable, low permeable with smooth finish.
- Resistant against atmospheric gas, frost and thaw cycles.
- Excellent resistant to chloride, salts and chemical attack.
- Excellent mechanical strength.
- Fully compatible with concrete and all cementitious products.

### Instructions for Use:

#### Surface Preparation:

All surfaces must be sound, clean, compact, free from dust, grease substances and inconsistent parts. As part of surface preparation it is strongly recommended to expose the fine aggregates of the concrete surfaces by brushing it with a steel brush or light blasting.

Once the surface is ready, clean with blown compressed air and then saturate the surface thoroughly with clean water. Allow excess water to evaporate or use sponge to ensure a saturated surface dry condition "SSD" prior to application of the repair mortar. Application over dry concrete surfaces without saturation with clean water will result in failure of product and defect in repair.

#### Mixing:

LAVAREP 2P is supplied in a pre-measured two component kit. Pour component B (Liquid) into a suitable mixing container. Add component A (Powder) to the container and Mix using spiral paddle in slow speed heavy duty mixer for 2-3 minutes till a homogeneous lump free consistency mix is achieved. Keep the mix to rest for 3 minutes and then remix before application. Partial mix can be applied if needed provided that the two components are mixed in ratio stated in LAVAREP 2P Technical Data Sheet only. Avoid adding thinning water after the mixture is homogenous and ready for use, or when the mix starts to dry.

#### Application:

Apply LAVAREP 2P manually with a trowel or spatula to the saturated surface of concrete "SSD". To level off irregularities on large areas, apply the mix to the prepared substrates by using a steel trowel for up to a maximum thickness of 10 mm. If more thickness is required, , keep the first layer rough and apply a second layer as required in 4 to 6 hours interval.

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For filling pin holes or fine honeycombs, use steel trowel. Once the applied mix starts to partially set, trowel the whole surface to obtain a smooth finish.

Curing cementitious repair products is essential, after application, avoid rapid evaporation of applied mortar. Cure the applied coat for two days using clean water or apply a coat of a recommended MATEX curing agent. Consult with MATEX Technical Department for further instructions.

## Standards:

LAVAREP 2P conforms to:

- ASTM C109/109M, ASTM C190, ASTM C1583, ASTM D2369

TECHNICAL PROPERTIES	
Appearance	: Comp A: Cement Grey Comp B: Milky White
Dry Density	: 1.65 kg/ Lt.
Wet Density	: 1.80 kg/ Lt
Temp. of application	: From +5°C to +40°C
Adhesion bond to concrete	: 2.0 N/mm <sup>2</sup>
Water Absorption	: NIL
Pot-life-time of mixture	: 40-45 minutes @ 25°C
Flexural strength	: 3 Mpa.S @ 28 days
Tensile strength	: 1.4 Mpa.S @ 28 days
Workability	: Thixotropic Paste
Setting time	: 55 min. at 25°C
Maximum layer thickness	: 10 mm per coat
Thermal expansion coefficient	: 11 x 10 <sup>-6</sup> /°C

## Coverage:

LAVAREP 2P achieves coverage of 17 kg/square meter @ 10 mm thickness.

## Cleaning:

Clean tools with water prior to product hardening.

## Packaging:

LAVAREP 2P is packed in 30.0 Kg. kit consists of 23 Kg. from Comp. A (Powder) and 7.0 Kg. from Comp. B (Liquid).

## Storage:

LAVAREP 2P to be stored in original packing in dry conditions away from direct sunlight and high humidity levels.

## Shelf Life:

LAVAREP 2P can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

## Remarks:

- Protect the applied repairing coat from high temperatures or drying winds. The applied mortar must be cured with water or CEMCURE curing agent.
- Do not apply LAVAREP 2P when the surface temperature is less than 5°C or more than 35°C.
- During summer season, it is recommended to cover the working area to prevent direct sun effect on the substrate or the applied coat. Keep used tools in shade.
- Mix enough material that can be applied during the product open wet time.

## 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.

