

# SEWAMENT 3 PRIMER

One-component cementitious mortar to be used as an adhesive primer before manually applying Sewament 10



## WHERE TO USE

**Sewament 3 Primer** is used to improve the adhesion of **Sewament 10** to the substrate when repairation is carried out manually with a trowel or a float.

### Some application examples

**Sewament 3 Primer** must always be used as a bonding bridge for manual reparations of:

- concrete and masonry vaults, walls and beds in sewer trunk lines;
- water depuration plants;
- canals for collecting black water of zootechny industries.

## TECHNICAL CHARACTERISTICS

**Sewament 3 Primer** is a one-component prepacked mortar based on special cements, selected graded aggregates and special additives prepared according to a formula developed in the MAPEI research laboratories.

Mixed with water, **Sewament 3 Primer** becomes a fluid mortar that is easily applied with a brush. Once hardened it ensures an excellent adhesion of **Sewament 10** to the substrate.

## RECOMMENDATIONS

- It is not necessary to use **Sewament 3 Primer** when **Sewament 10** is applied by spray with a rendering machine.
- **Sewament 3 Primer** must not be applied on smooth surfaces. It is recommended to always roughen the substrate before repairation.
- Do not add cement or additives to **Sewament 3 Primer**.
- Do not mix **Sewament 3 Primer** manually.
- Do not add water when the product has begun to set.

## APPLICATION PROCEDURE

### Preparing the substrate

Completely remove any loose parts, or parts that are not resistant, from the surface by mechanically scarifying or hydro-scarifying. The concrete must be sound, compact and rough (the roughness must not be less than 5 mm) with a tensile strength not below 1.5 MPa.

If this result is not reached, contact our Technical Assistance.

Furthermore, by using the above mentioned means, any previous reconstruction works that are loose, old resin coatings, cementitious smoothing compounds, dirt and concrete chemically attacked by sulphates or other chemical agents must be removed.

Reinforcement rods must be cleaned from rust by sandblasting until grade SA 2<sup>1</sup>/<sub>2</sub> (almost to bright metal) is reached according to DIN 55928.

Sandblasting is not necessary if the preparation of the surface is carried out by hydro-scarifying. This technique removes dirt, contaminated concrete and rust.

Apply **Mapefer** (protective two-component corrosion-inhibiting mortar) or **Mapefer 1K** (one-component cementitious mortar) on the reinforcement rods with a brush following the instructions on the relative technical data sheets.

Wait until **Mapefer** or **Mapefer 1K** dries then saturate the substrate with water. Wait until the excess water evaporates completely before applying **Sewament 3 Primer**. To facilitate the removal of excess water, use compressed air.

### Preparing the mortar

Mix a 25 kg bag of **Sewament 3 Primer** with approximately 5.1 l of water (0.200 l of water per kg of powder). While mixing, slowly pour a 25 kg bag of **Sewament 3 Primer** in a clean bucket containing approximately 3.8 l of water. Mix for several minutes with a low speed drill fitted with a whip. Remove any unmixed powder from the sides and bottom of the bucket and add the rest of the water (approximately 1.3 l). Re-mix until a homogeneous lump-free mortar is obtained.

### Application

The prepared **Sewament 3 Primer** must be applied with a flat brush or sprayed with appropriate equipment on the concrete substrate that has been previously saturated with water. Apply approximately a 1-2 mm thick layer of **Sewament 3 Primer**.

**Sewament 10**, cementitious repair mortar, must be applied over the still fresh **Sewament 3 Primer** (within 10 minutes of its application).

If, due to un-programmed interruptions or delays, the **Sewament 3 Primer** surface dries at the moment of the application of **Sewament 10**, slightly roughen the hardened layer with a metal trowel and apply a new coat of **Sewament 3 Primer**. **Sewament 10** can then be applied over the fresh **Sewament 3 Primer**.

### Precautions to take during and after application

No particular precaution needs to be taken at +20°C and normal humidity conditions. In the presence of wind and low environmental humidity, it is recommended to apply **Sewament 3 Primer** on small portions of concrete and immediately apply **Sewament 10**. During summer it is recommended not to expose the product to direct sunlight. At low temperatures store the product in slightly heated areas.

## CLEANING

The still fresh mortar can be removed from tools with clean water. Once hardened **Sewament 3 Primer** can be removed only mechanically.

## CONSUMPTION

Approximately 1.8 kg/m<sup>2</sup> per mm of thickness.

## PACKAGING

25 kg bags.

## STORAGE

Stored in the original sealed packaging in a cool dry place, **Sewament 3 Primer** is stable for 12 months.

## SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

The product contains cement that when in contact with sweat or other bodily fluids produce an irritant alkaline reaction and in contact with the eyes it can cause serious damages.

Wear protective gloves and goggles. For further information refer to the safety data sheet.

FOR PROFESSIONALS.

### TECHNICAL DATA (typical values)

#### PRODUCT IDENTITY

Consistency:

powder

Colour:

grey

Specific gravity (kg/dm <sup>3</sup> ):	1.2 ± 0.1
Max aggregate diameter (mm):	2
Dry solid content (%):	100
Storage:	12 months in original sealed packaging in a cool dry place
Hazard classification according to EC 1999/45:	irritant. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet
<b>APPLICATION DATA</b>	
Colour:	grey
Mix ratio:	5.1 l of water per 25 kg of Sewament 3 Primer
Consistency:	fluid
Specific gravity (kg/dm <sup>3</sup> ):	2.0 ± 0.1
pH:	> 12
Application temperature range:	from +5°C to +30°C
Pot life: – (at + 5°C): – (at +23°C): – (at +30°C):	75' 60' 45'
Maximum thickness per layer (mm):	20
<b>FINAL PERFORMANCES</b>	
Bonding strength measured by shear test on concrete after 28 days at +23°C and 50%R.H. (MPa): – for vertical applications: – for vault applications:	> 1.5 > 1.5

## WARNING

*N.B. - Although the technical details and recommendations contained in this product report correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical applications: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.*

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