



# EUCOREPAIR V50

## Polymeric mortar for structural repair

### DESCRIPTION

**EucoRepair V50** is a one-component mortar for structural repairs, composed of Portland cement, selected fine aggregates, special additives, acrylic polymer and fibers that, when mixed, result in a mortar with a thixotropic consistency, high adhesion power, low permeability and excellent resistance.

### TECHNICAL CHARACTERISTICS

ESSAY	RESULTS
Aspect	Lump-free powder
Color	Gray
Mixing water per 25kg bag	3.25 to 3.75 liters
application temperature	10 to 30°C
Time for application after mixing	30 minutes
COMPRESSION RESISTANCE - ASTM C109	
*1 day	≥ 20 MPa
*3 days	≥ 25 MPa
*7 days	≥ 40 MPa
*28 days	≥ 45 MPa

Note: \*The results refer to tests carried out in the laboratory, with the addition of 14% of water (3.5 liters of water per bag) without adding gravel and tested according to ASTM C 109

### BENEFITS

- Dispenses with the use of forms;
- Compensated retraction;
- Application by hand or wet projection;
- Excellent adhesion to concrete substrates;
- High mechanical resistance;
- Applicable in thicknesses from 5mm to 100mm .
- Thixotropic mortar that allows applications on vertical and horizontal surfaces, the bottom of slabs and beams;

### APPLICATION

- Small and medium thickness repairs and/or reconstitution of concrete structural elements, such as beams, pillars, concrete walls, bottom of slabs and canopies;
- Recovery and/or reconstitution of the concrete structure, in a maximum thickness of 100 mm, applied in layers of up to 20 mm;
- Repair of infrastructure works in general – viaducts, maritime works, bridges and industrial works;
- Repairs without using formwork - " Dry Pack" system (dry mortar);
- Repairs and reconstitution of concrete surfaces and/or increase of cover thickness.

For other uses, consult the Technical Department via the email [sac@viapol.com.br](mailto:sac@viapol.com.br) .

### INSTRUCTIONS APPLICATION

REPARO E RECUPERAÇÃO

ARGAMASSA DE REPARO

**Tools needed** : Mechanical mixer, bucket and rubber glove;

### surface preparation

The substrate must be clean, decontaminated , free of loose particles or dust.

Delimit the repair areas with a diamond disc and remove the deteriorated concrete until reaching the concrete in good conditions. The cut must present a square or rectangular geometric figure.

Wet the surface with water, avoiding puddles and leave it in the "dry saturated" condition before starting the application.

Existing steel reinforcement must be clean and free of corrosion.

### Product Preparation

The homogenization of the **Eucorepair V50** must be done through a mechanical procedure, using a mortar , concrete mixer or a drill with coupled propeller and rotation control.

For each 25 kg bag of **Eucorepair V50** , 3.25 to 3.75 liters of water are required. The indicated amount of water for the mixture may vary depending on the ambient temperature and desired consistency.

It is recommended to add 2 liters of water for the initial kneading and mix for 2 minutes. Add the rest of the water and continue mixing for another 3 minutes.

### Product Application

Apply **EucoRepair V50** in small amounts, manually or with a trowel, pressing the mortar strongly on the surface in subsequent layers (up to 25mm) until the repair thickness is completely filled.

Care must be taken to ensure that there are no gaps in the filling. When applied in layers, it is necessary to wait for an interval between them so that they do not come loose from the substrate, due to their own weight. Finish with a steel, plastic or foam trowel.

**EucoRepair V50 can also be** applied with projection equipment.

### Recommendations

Carry out wet curing for at least 5 days after application.

## USE RESTRICTIONS

Do not apply to large areas at once.

Always perform wet or chemical curing to avoid cracking.

## CONSUMPTION

PRODUCT	CONSUMPTION
Eucorepair V50	1,765 kg/m <sup>3</sup> = 71 bags

## PACKAGING / STACKING

PACKAGING	STACKING
25 kg	5 bags

## EXPIRY / STORAGE

Store in a clean, dry place with good air circulation, protecting from sunlight and heat sources, with an ambient temperature of 10°C to 30°C.

If stored correctly and in the original sealed packaging, the **Eucorepair V50** has a shelf life of 9 months from the date of manufacture.

## SAFETY RECOMMENDATIONS

Before starting work, consult the FISPQ (Safety Data Sheet for Chemical Products), available on our home page [www.viapol.com.br](http://www.viapol.com.br).

Use suitable PPE such as gloves and face protection mask, waterproof boots and safety glasses.

Keep the product out of reach of children and pets.

In case of contact with the skin, wash the area with water and neutral soap.

In case of contact with eyes, rinse with plenty of drinking water for at least 15 minutes and seek medical advice.

In case of irritation of the skin, eyes or ingestion of the product, seek medical advice, informing about the type of product.

In case of ingestion, do not induce vomiting and seek medical attention immediately.

## ENVIRONMENTAL CARE

Do not dispose of the product or packaging in the environment. Properly dispose of waste in accordance with current legislation on the local environment and applicable regulations in accordance with the characteristics of the product or material . Do not reuse empty packages.

**EucoRepair V50** safety data sheet (MSDS) on the [www.viapol.com.br](http://www.viapol.com.br) website .

*" Note : The information contained in this sheet is based on our knowledge for your help and guidance. We point out that the performance of our products depends on the surface preparation, application and storage conditions, which are not under our care. The practical performance depends on the application technique, equipment conditions and the surface to be coated. We do not assume, therefore, any responsibility regarding the yield and performance of any nature as a result of the improper use of the product. This product requires specialized labor for application. For more information, consult our technical department."*

*Viapol reserves the right to change specifications or information contained in this brochure without prior notice.*