

# VIBROX

## EPOXY CASTING MORTAR 4 TO 40 MM



### DESCRIPTION

VIBROX is a fluid mortar for constructively filling under machine bases, rails and other items requiring casting where a fast high compressive strength is required.

### BENEFITS

- Very high spread size
- Low reaction temperature
- Non-shrinking
- High pressure resistance
- High impact resistance
- Moisture-insensitive hardening
- Impermeable
- High chemical resistance

### FIELD OF APPLICATION

VIBROX is ideally suited for the casting of high-tech machines that have to operate vibration-free.  
Can be poured in a layer thickness of 4 to 40 mm in one step.

### APPLICATION

#### PREPARATION OF THE SUBSTRATE

Make sure the surface is clean. The recommended processing temperature for the surface, the surroundings and the material is 15 to 25 °C. Do not use below 10 °C.

#### Casting formwork

The minimum pouring height is 4 mm, for larger flow distances 1 cm. The formwork should be sturdy and well balanced. The pouring opening must be at least 5 cm wide. Make sure there is a vent hole of 1 cm on the opposite side. For a non-flat surface, pour from the largest layer thickness to the smallest.  
The formwork must be 5 cm higher than the pouring height.

#### PREPARATION OF THE PRODUCT

Stir the base (component A) evenly before use. Add the full amount of hardener (component B) and mix mechanically (300 rev/min) until both components are homogeneous.

#### PREPARATION OF THE EQUIPMENT

Always work with clean mixing containers and application material.

#### APPLICATION

Pour the mortar through the pouring opening in one go without stopping. Make sure that the vent hole is open. Stop filling when the mortar is 1cm from the top level.  
Check the level after 15 minutes. Add more if necessary.  
Use mixed mortar as quickly as possible.

#### FINISHING

VIBROX can be painted. The cured mortar must be sanded to the filler before you apply paint or a coating.

### COMPLIMENTARY PRODUCTS

Cleaning solvent for tools: MEK SOLVENT

### TECHNICAL DATA

#### APPEARANCE - COMPOSITION

A-component	Modified epoxy resin with filler and additives.
B-component	Polyamine hardener
Colour	Green, grey-green

#### REACTION TIMES

VIBROX is mechanically loadable after 72 hours of curing at 20 °C for a layer thickness of at least 10 mm. After 7 days curing at 20 °C the compressive strength is approximately 70 N/mm<sup>2</sup> in accordance with and EN 12190. The curing process is function of the curing temperature and the application or layer thickness. Before loading, the engineer or user can check the final strength by measuring the hardness and verifying the strength by means of field cube samples.  
VIBROX is chemical loadable after 7 days at 20 °C.

#### CONSUMPTION

1.4 kg VIBROX per litre of mortar.


#### TECHNICAL DATA

Specific mass	1.4 kg/dm <sup>3</sup>
Colour	Grey-green
Surface	Smooth
Shore D hardness (after 72h / 7d)	± 80 / 82
Compressive Strength EN 12190 (after 7d)	± 70 N/mm <sup>2</sup>
Flexural Strength EN 196-1	± 25 N/mm <sup>2</sup>
E-modulus EN 13412	3 kN/mm <sup>2</sup>
Adhesion to concrete EN 1542	± 4.9 N/mm <sup>2</sup>
Adhesion to metal EN 1542	1.5 to 8 N/mm <sup>2</sup> dependent on the pre-treatment
Thermal Compatibility Freeze-Thaw cycling EN 13687-1	± 2.4 N/mm <sup>2</sup>
Capillary Absorption EN 13057	0.0046 kg/(m <sup>2</sup> .h <sup>1/2</sup> )
Heat Resistance	60 °C continuous
Thermal Expansion coefficient EN 1770	48,1.10-6
Layer thickness	4 mm to 40 mm
Application temperature Minimum curing temperature	+15 °C to +25 °C +10 °C
Processing time	30 minutes at 20 °C
Curing	Non-shrinking
Shelf life	24 months

## CHEMICAL RESISTANCES

VIBROX has an excellent chemical resistance to alkalis, petroleum derivatives, acid, diluted organic acids, salts and solutions. For more information please contact RESIPLAST NV.

## CE MARKING

	
0749	
KORAC NV, Gulkenrodestraat 3, 2160 Wommelgem, Belgium	
13 0749-CPR-BC2-563-4714-0002-001	
EN 1504-3 : 2005 Protection and repair of concrete structures – Structural and non-structural repair – PC mortar	
Compressive strength	Class R4
Chloride ion content	<0.05%
Adhesion Bond	≥2.0 Mpa
Carbonation resistance	Pass
E-modulus	3.0 GPa
Thermal compatibility, Freeze-Thaw	≥2.0 Mpa
Capillary absorption	<0.5 kg.m <sup>-2</sup> .h <sup>-0.5</sup>
Reaction to fire	E <sub>FL</sub>
Dangerous substances	Complies with 5.4
DoP N°: DOP03VBX01S3	

## REFERENCE DOCUMENTS



## PACKAGING

VIBROX	Comp A	Comp B
Set 5 kg	3.75 kg	1.25 kg
Set 30 kg	22.50 kg	7.50 kg

## STORAGE AND SHELF LIFE

Store VIBROX in a dry, well ventilated storage area between 5 and 35 °C.

Shelf life: 24 months .

If in doubt, contact RESIPLAST NV and provide the batch number on the package. Do not let the product get in contact with ground water, surface water or sewage systems. Dispose of contaminated packaging and remnants according to legal regulations.

## SAFETY PRECAUTIONS

Carefully read the safety instructions before using VIBROX. Products have a characteristic odour when being applied. Ensure there is sufficient ventilation, stay away from ignition sources and do not smoke. Avoid contact with skin. Eye irritation and/or sensitivity may occur during heavy vapour concentrations, inhalation and/or skin contact. Do not keep food products (food, beverages) in the same workspace. Always wear personal protective equipment according to local guidelines and regulations. Gloves and safety goggles are mandatory.

The above information is provided in good faith, but without any guarantees. The application, use and processing of the products are beyond our control and are, as such, the sole responsibility of the user/processor. In the event that KorAC nv is still held liable for damages, then the claim will still be limited to the value of the goods delivered. We always aim to deliver consistently high quality goods. All values on this technical sheet are average values that result from tests carried out under laboratory conditions (20 °C and 50% RH). Values that are measured on the construction site may show a slight deviation since the environmental conditions, the application, and the way of processing our products are beyond our control. Do not add any products other than those indicated on the technical documentation. This version replaces all previous versions. Version 2.0 Date: 12 February 2024 9:52 am