

## Epoxy mortar for lining and repair

### PRODUCT

**weberep epo 440 LR** is a trowellable three components, shrinkage-free epoxy mortar. It is mainly used for its high bonding power and mechanical strength. The material will give excellent chemical and abrasion resistance for concrete and similar substrate.

**weberep epo 440 LR** adheres to all building materials: iron, concrete, bricks,...  
It has a high chemical resistance to: Petroleum, oil, grease, diluted acids, alkalis, solvents and salty water.

### SCOPE OF USE

**weberep epo 440 LR** is used in the following fields:

- Manholes lining: adapted consistency for applications over large areas
- Surface repair: concrete surface patching and edge repair
- Horizontal and vertical application up to 10 mm per layer

### ADVANTAGES

- Water cleanable application tools
- Chemical resistance
- Solvent free
- Resistant to large range of industrial chemicals including acids and alkalis
- High early strength
- Durable: good resistance to abrasion and impact
- Easy application
- Water resistance and waterproofing
- High bond strength
- Non-sagging
- Smooth finish

### CHARACTERISTICS

Composition	3 components Resin, Hardener, Siliceous fillers
Specific gravity BS 6319 Part 2	2.1 ± 0.1
Pot life	3 hrs. at 25 °C
Compressive strength at 7 days and 23 ± 2°C	> 90 MPa
Flexural strength at 7 days and 23 ± 2°C	> 35 MPa
Tensile Strength at 7 days and 23 ± 2°C	> 15 MPa
Water absorption	Nil

### APPLICABLE STANDARD

ASTM C579  
ASTM C580  
ASTM C307  
ASTM C413



### PACKAGING

Leb	Syria	Jordan	UAE	Qatar	Kuwait	KSA	Oman
179 Kg	179 Kg	179 Kg	179 Kg	179 Kg	179 Kg	179 Kg	179 Kg

2.9 kg epoxy + 15 kg fillers

### INSTRUCTIONS FOR USE

#### SUBSTRATE PREPARATION

The substrate should be dry, free from loose or unsounded pieces, dust, greasy matters or paint.

The substrate should be abraded by light brushing, grinding or light sandblasting depending on its quality. When a rough surface is difficult to be obtained, weberfloor eposil plus should be used to prime the surface, weberep epo 440 LR should be applied while the primer is still tacky, but not before 10 to 20 minutes of primer application.

#### PRODUCT PREPARATION

The product is already delivered in the recommended mixing proportions.

Mix the resin (Part A) and the hardener (Part B) manually or with a mechanical low-speed mixer (speed < 300 rpm) in a suitable container until a homogeneous mix is obtained. Then add gradually the filler (3rd component: Part C) to the mixture while mixing thoroughly.

The mixing should continue after all the components have been added for approx. 3 minutes to ensure that the product is fully blended and a homogenous mortar is obtained.

#### PRODUCT APPLICATION

Lining: The mixed epoxy mortar should be placed immediately

after mixing. It can be applied by using a steel trowel. The mortar should be firmly compressed on all surfaces to ensure good compaction and adhesion.

On vertical and overhead surfaces, avoid applications over 10 mm per layer since the mixed material may exhibit some sagging. In this case it is recommended to apply 2 or 3 layers making sure that the first layer is rough and dried before the application of any successive layer, and that the additional layer is applied within 24 hours. The setting will occur within 5 hours depending on the temperature. mixed material may exhibit some sagging.

Repair: Apply the mortar with a trowel or by other means on the wall or on the floor.

Level it and smoothen it with a trowel or a float.

The setting will occur within few hours and its chemical resistance will be fully obtained within 7 to 14 days.

After usage, clean tools with WATER.

Ideal application temperature is between +5° C and +35° C.

## STORAGE

12 months after manufacturing date in original and non-open packaging , under cover, in dry condition, away from humidity, protected from extreme temperatures and direct sunlight.

## SAFETY PRECAUTIONS

Application should be done in a ventilated area away from any heat source. Wear protective gear for hands and eyes and avoid breathing of vapor. If mixed resin comes into contact with the skin, it should be promptly removed before hardening, followed by thoroughly washing the skin with soap and water. In case of heavy vapor inhalation, place affected person in an open-air area. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting. In all cases, seek medical attention. In case of fire, use CO2 foam to extinguish. Tightly seal containers when not in use, store them away from heat and carefully dispose empty ones.

## DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

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