

## Epoxy floor resurfacing compound

### PRODUCT

**weberep epo 420 SC** is a three-component system based on epoxy resins and selected fillers.

It provides a resilient system for floor repairs and resurfacing, non absorbent and dust free.

The selected fillers enable the system to hold thickness and give **weberep epo 420 SC** a high resistance to abrasion, as well as a high tensile and compressive strength.

### SCOPE OF USE

**weberep epo 420 SC** can be applied up to 50 mm thickness and it is used for flooring resurfacing or patching in industrial and commercial plants:

- Warehouses
- Service stations
- Dairies plants
- Food processing and rendering plants
- Chemical plants
- Metal treating plants
- Machinery service areas
- Manhole benching
- It is recommended for any surface subjected to chemical attack and/or wherever superior corrosion resistance and wearing quality is required.

### CHARACTERISTICS

|                                                        |                                   |
|--------------------------------------------------------|-----------------------------------|
| Description                                            | 3-components epoxy mortar         |
| Composition                                            | Resin, Hardener, selected fillers |
| Density (BS 1881 Part 107)                             | 2 g/cm <sup>3</sup>               |
| Compressive Strength (ASTM C 579) @ 3 days and 40°C    | 87 MPa                            |
| Compressive Strength @ 7 days and 30°C                 | 100 MPa                           |
| Flexural Strength (BS 4551) @ 3 days and 40°C          | 17 MPa                            |
| Flexural Strength @ 7 days and 30°C                    | 27 MPa                            |
| Tensile Strength (ASTM C 307) @ 3 days 40°C            | 13 MPa                            |
| Tensile Strength (ASTM C307) @ 14 days 40°C            | 15 MPa                            |
| Bond Strength on concrete (BS 1881 Part 207) @ 14 days | >2.8 MPa                          |
| Pot life                                               | 2 hrs. @ 20°C<br>1hr. @ 30°C      |



### PACKAGING

| Leb    | Syria  | Jordan | UAE    | Qatar  | Kuwait | KSA    | Oman   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 278 Kg | 278 Kg | 278 Kg | 278 Kg | 278 Kg | 278 Kg | 278 Kg | 278 Kg |

For large application with less than 1 cm thickness, a special packaging of 178 kg kit (2.8 kg epoxy +15 kg fillers) is recommended.

### CHEMICAL RESISTANCE

To caustic soda 10%: excellent  
To muriatic acid 10%: excellent  
To sulfuric acid 10%: excellent  
To xylene: some surface softening

### APPLICABLE STANDARDS

BS 1881 Part 107& 207, ASTM C413, ASTM C 579, ASTM C 307, ASTM C 642-97 and BS 4551, ASTM C 642-97

### INSTRUCTIONS FOR USE

#### SURFACE PREPARATION

The substrate must be structurally sound, clean, dry. Mechanical scarifying or blasting with light sand shall be performed in order to cause 1/16" (1.6 mm) deep irregularities on the substrate.

Make sure that the surface is free from laitance, dirt and loose concrete remains, by floor scabbing or vacuuming.

All transitions between two different floor finishes or at floor drains shall be saw-cut in a 1/2" (13 mm) wide by 1/2" (13 mm) deep slot.

All cracks over 1/16" (1.6 mm) wide should be widened to the dimensions of 1/4" (6.3 mm) wide and 1/4" (6.3 mm) deep prior to the application of **weberep epo 420 SC**.

## PRODUCT PREPARATION

All material should be within the proper temperature range of (10 °C) to (40 °C) for at least 24 hours prior to mixing. Part B, the hardener is added to Part A, the base.

Mix with a special slotted paddle by using a low speed drill. The paddle should touch the inside surface of the can, bottom and sides, to insure complete mixing of the liquids. Mixing time should be 1 to 2 minutes with the proper tools. Then add gradually the fillers to the mixture and mix thoroughly until all the aggregate is mixed and a uniform epoxy mortar is obtained.

## PRIMING

After the surface has been prepared, prime any smooth areas with weber.floor eposil plus (Primer and sealer). Mix thoroughly and apply in a thin, even coat with squeegee, roller or brush. Make sure the primer thoroughly wets the surface, but do not allow it to puddle. Allow to cure for a maximum 24 hours before applying the mortar. All areas must be covered and the epoxy Mortar must be laid over tacky primer before it cures.

## PRODUCT APPLICATION

Apply **weberep epo 420 SC** with a steel trowel and then either finish by hand or finish with a spiked roll.

## CONSUMPTION

App. 2 kg / m<sup>2</sup> for 1mm

## YIELD

14 lit. / kit (28 kg/kit).

## STORAGE

**weberep epo 420 SC** can be stored 12 months after manufacturing date in its original packaging, in a dry location, away from extreme temperatures.

## 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

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