

# Cipicrete

## EPU based patching compound

TYPE 8 EFNARC GUIDELINE

HEAVY DUTY SCREED FLOORING

### Description

Cipicrete is a quick setting, concrete repair and levelling mortar consisting of EPU based resin and hardener and can be used for immediate repairs for worn out industrial floor patches. Cipicrete is fast setting and forms an instant piece of floor on the worn out areas. It has higher compressive strength than the concrete and adheres well to the old or new floors. All the ingredients such as resin, hardener and graded aggregates are factory pre mixed for accurate results. Once applied, it can be walked on or trollies can be moved on within hours, thus saving valuable process hours. Cipicrete is recommended for repairs of low depth patches (< 5mm), where as Floorcrete is used for repair and levelling of higher depth areas of more than 10-15 mm.

### Uses

- Cipicrete is recommended as a useful kit for maintenance managers for whom time is a prime factor.
- Cipicrete is used for patching up of smaller potholes and worn-out concrete floor areas.

### Key features

- Fast setting
- No water curing
- Return to service within hours
- Higher compressive strength than concrete
- Thermally stable
- Water resistant

### Properties

|                                |                                  |                                |  |
|--------------------------------|----------------------------------|--------------------------------|--|
| Type                           | : Epoxy Urethane                 | Mixing ratio                   | : Pre-weighed kit                        |
| Pot life @ 27°C<br>ASTM D 2471 | : 25 minutes                     | Density of the mix             | : 2.13 gm / cc                           |
| Drying time<br>ASTM D 1640     |                                  | Recommended DFT<br>ASTM D 7091 | : Less than 5mm                          |
| Setting time<br>Hard dry       | : 60 - 90 minutes<br>: 7-8 hours | Application                    | : By trowel                              |
| Recommended thinner            | : PUT 502 (Clean up)             | Shelf life                     | : 12 months in the<br>unopened container |

### Performance data

#### Performance data :

*The mandatory performance parameters as per FeFRA and EFNARC guidelines for resin flooring system*

|   |   |
|---|---|
| Pull of adhesion test<br>ASTM D 7234-2022 | : $\geq 2$ MPa for M20<br>grade concrete or<br>Concrete failure |
|---|---|

#### Other mechanical properties

|                                 |           |
|---------------------------------|-----------|
| Tensile strength<br>ASTM 638    | : 6.5 MPa |
| Elongation<br>ASTM D 638        | : 1.5%    |
| Flexural strength<br>ASTM D 790 | : 15 MPa  |

**Note :** The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary, dependent on actual site conditions

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### APPLICATION INSTRUCTIONS

The areas to be covered or filled in should be absolutely dry, clean and devoid of dust, oil, loose floor particles, old paint, tar etc. Prime the surface with a suitable primer like Cipoxy 17 / Cipoxy 18 and allow the primer to cure. Overcoating window time should not exceed 24 hours. In case overcoating window exceeds 24 hours, recoating of primer is necessary. Then unpack resin and hardener of Cipicrete into a mixing bowl. Agitate the mixture at a slow speed for 1 minute, add the formulated aggregates slowly into the mix and agitate for another 3-4 minutes. Cipicrete compound is then levelled by a trowel. The mixture must be used within 10 minutes.

### Packaging & Theoretical coverage

Cipicrete is available in pre-weighed packs of 19.5 kgs and has a maximum shelf life of 12 months in the un-opened containers. 1 set covers 3 sqm @ 3mm thickness.

### Storage and handling

The product should be stored in accordance with national regulations. It should be kept in a cool, well ventilated area, away from heat, direct sunlight, sparks and children. It contains inflammable solvents. Handle with care. Mix resin and hardener as per the ratio. Use the mix solution within the pot life time.

### Health and safety precautions

Please refer to MSDS. Observe reasonable care and employ ordinary hygienic principles such as washing the hands with soap and water before eating or smoking. It is recommended to wear gloves, goggles and nose masks while application. In case of splashes on the skin, dampen the cloth with thinner PUT 503 and wipe the hands with the cloth. Wash then with soap and water. Dried film is non toxic. In case of contact with eyes, rinse with plenty of water and seek medical advice. In case of continuous exposure to vapour, the applicator should be immediately moved to get fresh air. The disposal of excess or waste material should be carried out in accordance with the local legislations.

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