

Floorkrete

Fast setting, epoxy concrete patching compound

TYPE 8 EFNARC GUIDELINE

HEAVY DUTY SCREED FLOORING

Description

Floorkrete is an instant concrete repair compound consisting of a specially developed epoxy based resin and hardener which can be used for immediate repairs for worn out industrial floors and pavements. Floorkrete 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. Once applied, it can be walked on or trolley can be moved on within hours, thus saving valuable process hours. Floorkrete cured mass shows excellent compressive, tensile and flexural strengths than the concrete and because of these factors, the conventional repair compounds such as asphalt compounds and cement mortars can be easily replaced. Cement mortars need wet curing, while asphalt compounds have no thermal stability.

Uses

Floorkrete is recommended as a useful kit for maintenance managers for whom the time is a prime factor. Floorkrete is used for patching up of larger potholes and repairing of damaged areas on the floors, roads, runways and pavements.

Key features

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

Properties

| | | | |
|--------------------------------|------------------------------------|--------------------------------|---------------------------------------|
| Type | : Epoxy Polyamine | Mixing ratio | : Pre-weighed kit |
| Pot life @ 27°C ASTM D 2471 | : 30 minutes | Density of the mix | : 2.04 gm / cc |
| Drying time ASTM D 1640 | | Recommended DFT ASTM D 7091 | : More than 5mm, upto 15mm |
| Setting time Hard dry | : 60 - 90 minutes : 7 - 8 hours | Application | : By trowel |
| Recommended thinner | : PUT 502 (Clean up) | Shelf life | : 12 months in the unopened container |

Performance data

Performance data :

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

| | |
|---|---|
| Pull of adhesion test ASTM D 7234-2022 | : ≥ 2 MPa for M20 grade concrete or Concrete failure |
|---|---|

Other mechanical properties

| | |
|---------------------------------|----------|
| Tensile strength ASTM 638 | : 5 MPa |
| Elongation ASTM D 638 | : 1.5% |
| Flexural strength ASTM D 790 | : 22 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. Floorkrete is supplied in kits containing resin, hardener and grey coloured aggregates. Empty all contents of the kit and mix thoroughly with the aid of a mechanical stirrer for 5 minutes. Lay the mix with a trowel and level it smoothly. Allow to cure for 2-3 hours

Packaging & Theoretical coverage

Floorkrete is available in pre-weighed packs of 22 kgs and has a maximum shelf life of 12 months in the un-opened containers. 1 set covers 2.15 sqm @ 5mm 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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