



Nitomortar® 30

Chemical and abrasion resistant epoxy repair compound

Uses

For permanent repairs to concrete structure and cementitious substrates where strength, impermeability to water and resistance to aggressive chemicals is essential. Ideally suited for maintaining engineering, chemical handling and processing plants.

Advantages

- **Chemical Resistance** :Unaffected by wide range of acids, alkalis and industrial chemicals
- **Easily applied** :Designed for easy application to a fair finish
- **Quality** : Pre-weighed quality controlled materials ensure consistency and reduce risk of site errors
- **Proven performance** : Successful use proves for a wide variety of aggressive applications

Description

Nitomortar 30 is a three part solvent free combination of epoxy resin, modified amine hardeners filled with specially graded chemically inert aggregates with high crushing strength.

It is applied by trowel as a durable chemical resistant repair mortar 3-6 mm thick depending upon the requirement. The system includes Nitoprime 25 a two part epoxy resin primer and Nitomortar 30 which are both supplied in preweighed units ready for onsite mixing and application. The finished area has a slightly granular texture of uniform self colour. However, as the natural grade takes its colour from the aggregates which is subjected to variation, colour matching is not practicable with this grade.

Technical Support

Fosroc offers a technical support package to specifiers, end users and contractors as well as onsite technical assistance all over the country.

Properties

Curing characteristics at 30°C

Nitomortar 30

Pot life : 30 min.

Initial hardness : 16 hrs

Full cure : 7 days

Mechanical characteristics @ full cure

Compressive strength : 45 N/mm²

Flexural strength : 12 N/mm²

Tensile strength : 4.5 N/mm²

Bond strength to concrete : 3.0 N/mm²

Nitoprime 25

Pot life : 30 min. @ 30°C

Maximum overlay time : 30 min. @ 30°C

Chemical Resistance

Acids

| | |
|------------------|-----------|
| Hydrochloric 10% | Excellent |
| Sulphuric 10% | Excellent |
| Phosphoric 30% | Excellent |
| Nitric 10% | Good |
| Lactic 10% | Excellent |
| Citric 10% | Excellent |

Alkalis

| | |
|----------------------|-----------|
| Sodium Hydroxide 30% | Excellent |
| Ammonia 10% | Excellent |

Organic Solvents

| | |
|-------------------|---------------|
| Butanol | Good |
| White Spirit | Excellent |
| Oil/Grease/Petrol | Excellent |
| Xylene | Good |
| Acetone | Not resistant |
| Skydrol | Good |
| Sat. Sugar | Excellent |

Aqueous solutions

| | |
|--------------|-----------|
| Conc. Bleach | Excellent |
| Sat. Urea | Excellent |

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Those materials marked 'Good' are suitable for areas of occasional spillage where good housekeeping is in force.

All the above properties have been determined by laboratory controlled tests and are typical of those expected in practice.

Estimating

Packaging and Coverage

| | Pack size | Approx. Coverage rate |
|---------------|-----------|--|
| Nitoprime 25 | 1 & 4 Ltr | 5.5 - 6.5 m ² /Ltr. |
| Nitomortar 30 | 8 Ltr | 2.67m ² @ 3mm thickness/pack 1.33m ² @ 6mm thickness/pack |

The coverage rates are given for guidance only as actual quantities used will vary on nature of substrate and conditions on site.

Storage

Nitoprime 25 and Nitomortar 30 have a shelf life of 12 months if stored in unopened containers below 35°C.

Additional information

Fosroc manufactures a wide range of products specially designed for the repair and refurbishment of damaged reinforced concrete. This includes hand placed and spray grade repair mortars, fluid microconcretes, chemical resistant epoxy mortars and a comprehensive package of protective coatings. In addition, a wide range of complementary products are available.

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