

EMACO[®] R404 NT

A single component cementitious blowhole filler and levelling mortar based upon applied Nanotechnology for repairs to corrosion damaged concrete

Composition

Emaco R404 NT is a combination of portland cement, well graded sands and special additives to improve application and physical properties

When mixed with water Emaco R404 NT produces a smooth cementitious paste ideally suited to filling of small surface defects, blowholes and surface levelling in thin layers of up to 3mm maximum.

Typical applications

Surface leveling and blowhole filling for all concrete elements such as

- Oil gas and petrochemical foundations, supports and retaining walls.
- Jetties piles, harbour walls and other marine structures
- Columns, Piers and cross beams on highway structures
- Water production, treatment, intake and outfall structures and sewerage facilities
- Tunnels, pipes and other below ground construction
- Cooling towers and chimneys and other industrial environments
- Beams, columns, walls and slabs in high rise buildings

Benefits

- Improved cement hydration, reduced drying shrinkage better bond to substrate using applied Nanotechnology
- Excellent workability for easy mixing, and fast application

- Compatible with Masterseal protective coatings

Packaging

Emaco R404 NT is available in 25 kg bags.

Technical data

Properties listed are only for guidance and are not a guarantee of performance

Comp strength BS 1881 Pt 116 - 28 days	> 25 N/mm ²
Working time	60 mins @ 25°C
Setting time	90 mins @ 25°C
Flow BS EN 1015 Pt 3	> 180 mm at 30 mins
Density	Approx 1850kg/m ³

Application guidelines

Substrate preparation

All areas to be treated must be clean, sound and free from all dirt dust, loose material and any oil or grease which would impair adhesion.

Priming of the substrate

The substrate should be thoroughly soaked, to a saturated but surface dry condition prior to application of the Emaco R404 NT.

Mixing

It is recommended that only full bags of 25 kg are mixed.

Emaco R404 NT should be mixed by mechanical means with a slow speed drill and spiral paddle. The required amount of gauging water should be placed in the mixing bucket and the Emaco R404 NT powder added and mixed for approximately 3



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minutes until a smooth, creamy and lump free consistency is achieved.

The water additions shall be a maximum of 7 litres per 25kg bag

Application

Following mixing the Emaco R404 NT can be applied by brush or the edge of a steel float and scraped into substrate to fill all blowholes and minor surface defects. A fine mist spray of clean water should be applied to the finished surface. The hardened Emaco R404 NT can then be smoothed using sandpaper.

Alternatively Emaco R404 NT can be applied as a leveling mortar by steel float up to 3 mm thick. The final finishing shall be by steel float or with a damp sponge depending upon the finish required.

Emaco 404 NT can be overcoated 24 hrs after application

Curing

Generally curing is not necessary for cosmetic repair mortars however particular care is required in hot and/or windy conditions. Where a curing membrane is specified this can be using a curing membrane from the **MASTERKURE** range

Yield/Coverage

A 25kg bag of Emaco R404 NT will yield approximately 17.3 litres of mortar

One bag of Emaco R404 NT will cover 17.3 m² at thickness of 1mm. This coverage is theoretical and depends upon the surface profile of the substrate and the wastage.

Storage

Emaco R404 NT should be stored in dry conditions out of direct sunlight. Shelf life when stored correctly is 12 months.

Watchpoints

- During the summer months or where elevated ambient temperatures are encountered the Emaco R404 NT should be mixed using chilled water to ensure that the mixed temperature does not exceed 32°C
- Do not add cement sand, or which may affect it's properties
- Do not add water or fresh mortar to material which has begun to set

Safety precautions

Avoid contact with eyes and prolonged contact with skin. In case of contact with eyes immediately flush for at least 15 minutes with fresh clean water. Call a physician.

In case of contact with skin wash skin thoroughly.

Quality and care

All products originating from the BASF facility in Dubai are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards ISO 9001, ISO 14001 and OHSAS 18001.

Note

Similar to all the other recommendations and technical information, this technical data sheet serves only as a description of the product characteristics, mode of use and applications.



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The data and information given are based on our technical knowledge obtained in the bibliography, laboratory tests and in practice. The data on consumption and dosage contained in this data sheet are based on our own experience and are therefore subject to variations due to different work conditions.

BASF Construction Chemicals UAE LLC reserves the right to modify the composition of the products provided these continue to comply with the characteristics described in the data sheet. In the case of defects in the manufacturing quality of our products we provide a guarantee, any additional claims being exempt and our liability being only to return the value of the goods supplied. The possible reservations with respect to patents or third party rights should be noted.

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As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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