

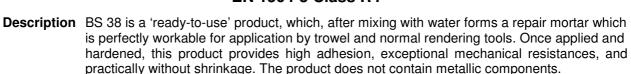
Certified Quality System since FEBRUARY 1993

NORMA EUROPE

BS 38

FIBRE REINFORCED ONE-COMPONENT REPAIR MORTAR WITH ACCELERATED SETTING, SHRINKPROOF FOR STRUCTURAL CONCRETE REPAIRS

CE approved – Certificate n. 1305 - CPD - 0808 EN 1504-3 Class R4



Vantaggi • BS 38 thixotropicity and accelerated setting (10-20 minutes workability) give the advantage of fast application of additional layers and finishing of the repair of the surface in all weather conditions (30-40 minutes after application).

- The thixotropic qualities of the product make for perfect adhesion and easy application
- On vertical surfaces, the lower parts of beams, shelves or slabs.
- No special equipment, mechanical nor other tools, are required for the application.
- No bleeding
- Strong adhesion properties to the substrate.
- Maximum resistance against chemical attack and impermeable to water, even under
- pressure.
- Exceptional mechanical resistance.

Fields of use

- Repair and resurfacing of damaged concrete substrates
- Structural repair.
- For vertical substrates or sofits in general, or in the situation following characteristics are required:
- The build up of consecutive repair layers in a short timeframe.
- Easiness of application and finishing
- Strong and immediate adhesion to the substrate
- Very low rebound and waste, dimensional stability
- Optimal physico-mechanical properties

Method of use Reveal all rusted steel bars, remove rust and treat with MuCis® Protezione Ferro before applying anything else. Prepare the substrate by high pressure waterjetting or sandblasting to assure good adhesion of the repair mortar by removing all substances which can interfere with adhesion such as oil, grease, dust, deposits etc.

- Saturate the substrate with water till full saturation. Start a few hours before starting the application of the repair mortar.
- Remove all the excess water by sponge or compressed air, prior to the application.
- For degraded substrates, or when possible, apply first by trowel a key coat made with the same material at a slightly more fluid consistence in order to create maximum penetration and consolidation to obtain optima adhesion of the repair material.
- Add the powder to the water until you get the required consistency, mixing well to eliminate all lumps and obtain a homogeneous mix. The mix proportion (25 kg bag of powder and 4 lt water) give medium mortar consistency and workability.
- Prepare the amount of mix required and use within 15 minutes. Do not reuse the product or thin with additional liquid once thickened.
- Once applied, but even not yet hardened, protect the repaired area from drying out. This is especially needed in dry and hot climates or in windy conditions. Optimal results will be obtained when the repair is kept wet during at least 3-5 days.

Emission date: 01/2006 BS 38 mono Revision date: 06/2014 Nr. rev.: 5 pag. 1/2



Certified Quality System since FEBRUARY 1993

- Applications of higher thickness must be performed in several layers to avoid the disruption of the applied product in the 'plastic' phase. The fast setting of the product allows a fast application even at higher thickness.
- For the best repair results in general, it is recommended, certainly for substantial repairs in volume or thickness, to reinforce the repair by means of steel meshes, zinc nets or other, fixed to the original steel reinforcement, or to steel pieces, fixed with BS 38 previously.

Remarks Information according to 2003/53/CE:

Storage : The product can be kept for at least 12 months if stored in dry and protected conditions, in the original packaging, between +5°C and +35°C.

Packaging Bag of 25 kg

Caratteristiche tecniche (valori tipici)

0 0		
 Compressive strength N/mm₂ 	N/mm ²	45 (28 days)
Flexural strength		8 (28 days.)
ELASTICITY MODULUS	N/mm ²	23.000 (28 days.)
Adhesion to concrete	N/mm ²	2,0 (28 days.)
Pull-out	N/mm ²	> 15 (28 days.)
Carbonation in time	8 years mm	2,5
Carbonation in time	18 years mm	8
	25 years mm	11
Resist. to CO ₂ penetration	μ	1.200
 Water vapour permeability coeff. 		42
	μ ar/ma	
Res. FROST/THAW	gr/mq	550
② Permeab. to CHLORIDES	Coulomb	820
Type of mortar		Thixo mortar
N. components		mono
Advised layer thickness	mm	10÷35 (steel net)
Application		hand
Curing : wet		yes
Curing : protected		SE
Typical application		Structural repair
Sotting time		accelerated
Setting time Usedaning		accelerated
Hardening Obside a second se		
Shrinkage compensation	1//2/	YES
Consumption	Kg/m²/mm	1,85

1 N/mm² = 1 MPa = 10,19 Kg/cm²



Safety Read carefully the safety indications on the packaging, or consult the relevant Material **indications** Safety DataSheet of this product.

The above information is based on our best experiences and lab results and on results of the application of the product in various fields. Tecnochem Italiana is not responsible for negative performances due to not proper use of the product or for defects due to elements not connected with the quality of the product included wrong storage. Technical characteristic in this technical data sheet are up-to-dated periodically .Revision date of this technical data sheet is indicated below

Emission date: 01/2006
Revision date: 06/2014

Nr. rev.: 5

BS 38 mono pag. 2/2