



VHDRS®
Very
High
Durability
Repair & Prevention
System



Certified Quality System since **FEBRUARY 1993**

From Project to Jobsite

BS 38 FINISH MuCis®

**NORMAL SETTING
ANTICORROSION FIBER REINFORCED, TWO COMPONENT
RHEOPLASTIC REPAIR MORTAR WITH SUPERIOR ADHESION**

CE approved – Certificate n. 1305 - CPD – 0808

EN 1504-3 Classe R2

R2

EN 1504-3

NORMA EUROPEA

Description BS 38 FINISH MuCis® two-component is a special formulation consisting of a cement based powder and a liquid component (a water dispersion of special polymers) to be used for the repair and aesthetical/protective fairing of concrete. The product contains MuCis® - Contact and Migrating Corrosion Inhibitors. The product is available in maximum aggregate size of 0,3 mm. After mixing the two components, the resulting mortar is perfectly workable for application by trowel and normal rendering tools. Once applied and hardened, this product provides high levels of adhesion and physical-mechanical properties, maximum durability, waterproofing, excellent water vapour permeability and particularly low elasticity modulus.

Advantages and characteristics

- Pre – saturate the surface with water before the 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. It can often be used on structures that are subject to vibrations or dynamic stress from traffic.
- No need for wetting or evaporation protection after application, in hot and dry conditions.
- Strong adhesion on the substrate and maximum durability against carbonation and acid rain attack.
- High degree of water proofing and good water vapour permeability.

Fields of use

- For all types of resurfacing or restoration of damaged concretes at low thickness (max 2 mm per layer)
- General local repairs, both for concrete and masonry
- For the homogenisation of concrete surfaces to improve aesthetics.

Method of use

- A decent substrate preparation by brushing and/or surface preparation. Remove all traces of previous paints, oil deposits, dirt, by sandblasting, manual wire brushing or water jetting.
- Add the powder to the liquid until you get the required consistency, mixing well. The proportions given (25 kg bag of powder and 5,25 kg can of liquid) give medium plastic mortar consistency and workability. Where you need a particularly consistent and adhesive mix, reduce the amount of liquid slightly. Alternatively, if you need a particularly fluid mix, add a small amount of water after adding all the RMB liquid supplied.
- Prepare the amount of mix required and use within 15 minutes. Do not re-use the product or thin with additional liquid once thickened.
- Once applied, the product thickens quickly even in cold conditions and so must be float finished quickly.
- It is not recommended to use this product when temperatures are too cold, especially at temperatures below 4 °C.
- No need for wetting or evaporation protection after application, not even for very thin layers and hot conditions.

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Remark 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.
Do not use the contents of opened sacks if the powder has gone into lumps. Avoid freezing of the B component.

Packaging **Powder component :** bag of 25 kg BS 38 FINISH MuCis®
Liquid component : can with 5,25 Kg. RMB

Characteristic technical data (typical values)

Workability time		30÷60 min.
Compressive strength	N/mm ²	8 (1 d.) 25 (28 d.)
Flexural strength	N/mm ²	2 (1 d.) 8 (28 d.)
Modulus of elasticity	N/mm ²	6.900 (28 d.)
Adhesion to concrete	N/mm ²	1,9 (28 d.)
Pull-out rebars	N/mm ²	> 10 (28 d.)
Carbonatation in time	8 years mm	2,5
	18 years mm	14
	25 years mm	18
Resist. to penetration of CO ₂	μ	1.000
Water vapour permeability coeff.	μ	28
① Res. Frost/thaw	gr/mq	30
② Permeab. To chlorides	Coulomb	330
Type mortar		Thixo mortar
N. components		bic
Advised layerthickness	mm	1÷4
Application		hand
Curing : wet		NO
Curing : protected		SE
Typical application		Fairing coat
Setting time		normal
Hardening		normal
Compensation shrinkage		YES+++
Consumption	Kg/m ² /mm	2,0

* some products can also be produced with addition of corrosion inhibitor MuCis®

1) resistance against frost/thaw in presence of salts according to SIA 162/191 g/m² (<600 g/m² = high resistance = required for motorway boarders)

2) chloride permeability -Coulomb - FHWA/RD/81) (100-1000 Coulomb = very low)

SE in function of the conditions during application (rain, sun, temperature, humidity, etc)



Very High Durability Repair and Prevention Systems.
Very durable repair and protection Systems

Very High Durability Reinforced Concretes
Very durable and anti-corrosion reinforced concretes



Multiple Corrosion Inhibiting Synergies for the inhibition of the steel corrosion in reinforced concrete

AED High Deformation Energy

1N/mm² = 1MPa = 10,19 Kg/cm²

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

The above data are based on our actual and most experienced practical and laboratory knowledge and the results are collected from application of the product in different situations. Tecnochem Italiana does not assume any responsibility regarding inadequate or negative performance as a result of improper use of the product or for defects deriving from factors or elements other than the quality of the product including improper storage. The technical characteristics and performance mentioned in this datasheet are updated periodically. The revision dates and number of revision of the datasheets are listed in the table below. Eventual variations are traceable on our website www.tecnochem.it where the most updated datasheets can be retrieved.

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