MICROCEM 315

MONO-COMPONENT CEMENTITIOUS FAIRING COAT

CE approved – Certificate n. 1305 - CPD - 0808

EN 1504-3 Class R2

EN 1504-3 R2 NORMA EUROPEA

Description Mono-component cement based pre-mix with maximum aggregate size of 0,3 mm, for the fairing of concrete surfaces.

Advantages and characteristics

- Adheres perfectly to the concrete, and to some resin based coatings, providing they are sufficiently roughened and opened.
- Can be finished by floating by smooth trowel or brush, thanks to the specific particle size distribution (max 0,3 mm) and the particular plasticity.
- The high thixotropy allowing easy application on horizontal and vertical substrates.
- Volumetric stability after application.
- Does not require post-curing.
- Sprayable with conventional spray equipment

Fields of use

- Uniform fairing coat of concrete and resin based coatings.
- Correction of small surface imperfections on concrete like air-bubbles, small cracks, pores,...
- For the resurfacing of degraded elements.

Method of use

Preparation of the substrate :

- Substrates must be clean and sound. Remove all the incoherent parts by hand or mechanically, and clean by means of sandblasting or water/sandblasting in order to remove all traces of oil, grease, demoulding oil residues,..etc.
- The exposed reinforcement shall be cleaned by sandblasting and protected with anti-corrosion slurry MuCis® PROTEZIONE FERRO.
- Resin based coatings, and substrates in general, shall be roughened prior to the application of MICROCEM 315. If a repair is required at higher thickness, use, before MICROCEM 315, BS 38 MuCis® bicomponent.

Application:

- Mix the content of a bag of 25 kg with kg 5,25 (21%) clean water, till a lumpfree and easy to apply mortar is obtained. The liquid demand can vary with the climatic conditions and type of application. The product can be mixed by hand or by horizontal axes mixer equipment till complete homogenisation.

Remark

- Do not apply when temperature is below + 5°C.
- Do not apply more than 4 mm thick layer for each layer.
- Information according to 2003/53/CE

Storage: Storing possible during 12 months in original, unopened packaging, kept dry and protected, at temperatures between +5°C and +35°C
Do not use the contents of already opened bags if they seem to have turned lumpy.

Packaging 25 Kg bag.

TECNOCHEM ITALIANA S.p.A.
24030 BARZANA (BERGAMO) ITALY – VIA SORTE 2/4,
TEL. **39 035 55.48.11 – TELEFAX **39 035 55.48.16
E-mail: info@tecnochem.it- www.tecnochem.it

Technical Data (typical values)

•	Initial setting time:		around 1 hour at 20°C.
•	Compressive strength	N/mm^2	30 (28 d.)
•	Flexural strength	N/mm^2	9 (28 d.)
•	Elasticity modulus	N/mm^2	15.000 (28 d.)
•	Adhesion to concrete support	N/mm^2	2,5 (28 d.)
•	Pull-out	N/mm^2	> 10 (28 d.)
•	Carbonation vs. years	8 years mm	1
		18 years mm	4
		25 years mm	8,2
•	Resistance to CO_2 penetration	μ	1.900
•	Resistance to water vapour diffusion	μ	82
•	① Freeze and thaw resistance	gr/m^2	530
•	② Chlorides permeability	Coulomb	640
•	Type of conglomerate		Fairing coat
•	Number of components		mono
•	Thickness suggested	mm	1÷3
•	Application		By hand
•	Wet/damp curing		SE
•	Sheltered curing		SE
	Typical application		Smoothening concrete
•	Setting time		Normal
•	Hardening		normal
•	Shrinkage compensation		YES
	Dosage / yield	$Kg/m^2/mm$	1,85

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

1) resistance against frost/thaw in presence of salts according to SIA 162/1/91 g/m^2 (<600 g/m^2 = 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)

VHDRS — **V**ery **H**igh **D**urability **R**epair and **P**revention **S**ystems. Very durable repair and protection Systems

VHDRC — **V**ery **H**igh **D**urability **R**einforced **C**oncretes Very durable and anti-corrosion reinforced concretes

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

AED High Deformation Energy

$1N/mm^2 = 1MPa = 10,19\ Kg/cm^2$

Safety indications

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

TECNOCHEM ITALIANA S.p.A.
24030 BARZANA (BERGAMO) ITALY – VIA SORTE 2/4,
TEL. **39 035 55.48.11 – TELEFAX **39 035 55.48.16
E-mail: info@tecnochem.it- www.tecnochem.it