

MEETS THE EU DIRECTIVE

UNI EN 1504-3

R 4

RESTORATION MORTAR

PRODUCT CHARACTERISTICS

Thixotropic, fibres reinforced, one-component mortar, admixed with agents for the shrinkage control both during the plastic and the hardened phase and selected graded aggregates.

USE FIELDS

The product is used for the structural restoration of concrete surfaces, pillars, beams, balconies, etc. It has an excellent workability and can also be applied in 3-4 cm of thickness in unique coat.

PREPARING THE SURFACES

Remove the deteriorated concrete and clean carefully the surface from salts, oils, greases, crumbly parts and unknown or anti-adhesive substances. Soak the support with water before application. Any reinforcement rods exposed must be cleaned of rust with mechanical action and treated beforehand with WAR or WAR M corrosion inhibitor before restoring with WR07 – FIBROWIN TIXOTROPICA.

RECOMMENDATIONS

- No additives or additional cement required.
- Do not use if the bag is damaged.
- Do not add water when the mix starts to set.
- Do not apply on surfaces either made of asphalt or treated with bitumen.
- Do not apply on smooth surfaces.

APPLICATION

Mix well, mix well with 3,8-4 liters of clean water for each bag, until getting a homogeneous mixture. The product can be applied with a trowel or spray. Use the mortar for structural smoothing "WF02 - RASOWIN" (white, grey) for a better finishing.

WARNINGS

We recommend applying at temperatures between +5°C and +35°C. Protect from sun and wind in the first 24 hours. If necessary, keep the surface wet also after application. Store the product, before use, frost-free and in a place protected from humidity. Mix with cold water. Remove fresh mortar from tools used for preparation and application, with running water. After the product has dried, tools can only be cleaned mechanically.

CONSUMPTION

1.9 kg/ m² for each mm of thickness.

PACKAGING

25-kg bags - 60 bags per bench

STORAGE

The product is stable for 12 months when stored in its unopened package, at temperatures between +5°C and +35°C.

SAFETY NORMS

PRECAUTIONS

For information about safety norms, the user must consult the most recent Safety Sheet, edited in conformity with the Norms in force, containing physical, toxicological and other data about the product in use.

ECOLOGY

Do not throw the product and /or empty packs out in the environment. Consult the most recent Safety Sheet for further information about eventual disposals.

TECHNICAL DATA (average values)

WR07-FIBROWIN TIXOTROPICA complies with the requirements defined in EN 1504-9 ("Products and systems for the protection and repair of concrete structures: definitions, requirements, quality control and conformity assessment. General principles for the use of products and systems ") And to the minimum requirements of EN 1504-3 (" Structural and non-structural repair ") for R4-class structural mortars.

TECHNICAL FEATURES

FEATURES	STANDARD	RESULTS
Max diameter aggregates:	-	3 mm
Appearance	-	powder
Color	-	grey
Water for mixture per 25-kg bag:	-	Min 3.80 litres, Max. 4.00 litres
Mixture shelflife	-	60'
Specific weight	EN 12350-6	1950 kg/m ³
Adhesion to substrate after 28 days	EN 1542	> 2 N/mm ²
Capillary absorption	EN 13057	< 0.3 (kg/m ² · h ^{0.5})
Secant elastic modulus at 28 days	EN 12390-13	22,000 N/mm ²

PRODUCT PERFORMANCES IN COMPLIANCE WITH UNI EN 1504-3

FEATURES	STANDARD	RESULTS
Resistance to compression at 28 days	EN 12190	≥ 55 N/mm ²
Flexural Strength at 28 days	EN 12190	≥ 8 N/mm ²
Chloride ions content	EN 1015-17	≤ 0.05%
Adhesion to substrate	EN 1542	≥ 2.0 N/mm ²
Prevented shrinkage/expansion	EN 12617-4	≥ 2.0 N/mm ²
Resistance to carbonation	EN 13295	Passed
Fire reaction	EN 13501-1	A1

Volatile Organic Compounds Emission

Parameter	Max. allowed concentration (µg/m ³)
TVOC after 3 days	≤ 750
TVOC after 28 days	≤ 60

Test performed by the EUROFINS institute according to EN 16516, ISO 16000-3-6-9-11 and ASTM D5116-10, Test report n. 392-2018-00081401_G_EN_02

PRODUCT FOR PROFESSIONAL USE ONLY

The information contained in this technical data sheet is to the best of our knowledge correct. However, by no means can it be considered a guarantee, as usage, working area and application of the product in accordance with the instructions given and their success in application is beyond our control and is dependent on a number of factors. We decline any responsibility for the improper use of the product as the application recommendations contained herein are to be considered as a general guideline. If at all in doubt, preliminary tests should be carried out. WINKLER S.r.l. reserves the right to modify and up-date said data sheets without prior notice. Clients are kindly requested to verify that they are in possession of the current edition.