PRODUCT DATA SHEET

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CE

WMA - WINFORCE

COMPLIANT WITH EU RULE
UNI EN 1504-6
FIXING MORTAR

DESCRIPTION OF THE PRODUCT

Pourable cement-based mortar for anchoring, enhanced with additives to control shrinkage during both the plastic and hardened phases. The product is composed of selected aggregates with a perfectly graded particle-size distribution and next-generation superplasticizers. Formulated by WINKLER Research & Development Laboratories.

FIELDS OF USE

The product is designed for grouting and anchoring machinery, beams, pillars, and the base plates of steel structures.

SURFACE PREPARATION

Remove any damaged or deteriorated concrete. If necessary, sandblast the surface or wash it thoroughly using a high-pressure water jet. The substrate must be free of salts, oils, greases, loose particles, and any foreign or anti-adhesive substances. Before application, saturate the substate with water until refusal.

WARNING

Do not add cement or any additives.
Do not use the product if the packaging is damaged.
Do not add water once the mixture has begun to harden.
Do not apply on asphalt or bitumen-treated surfaces.
Do not apply on smooth surfaces.
If necessary, use reinforcement for improved contrast or structural support.

PRECAUTIONS

Apply the product at temperatures between +5°C and +35°C. Protect the surface from direct sunlight and wind during the first 24 hours; if necessary, keep the surface slightly moistened even after application. Before use, store the product away from frost and in a dry environment protected from humidity. Mix the product with clean, cold water. Remove fresh mortar from tools used for preparation and application with running water. Once hardened, the material can be only removed mechanically.

Winkler Srl
Via M. Buonarroti, 15 - 20093 Cologno Monzese (Mi) - Italy
Tel. +39 02 26 700 605
info@winklerchimica.com - www.winklerchimica.com

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APPLICATION
Mix the product until a homogeneous mixture is obtained. Apply **WMA-WINFORCE** by pouring or dripping into the prepared cavity. Finish the surface with a spatula or trowel. The product can be applied in layers up to 5 cm thick.

CONSUMPTION
Approximately 2.1 kg/m^2 per mm of thickness

PACKAGING
25 kg bags

STORAGE
The product in its original and undamaged packaging, can be stored for up to 12 months. Store at temperatures between +5°C and 35 °C. The product is not frost-resistant.

SAFETY INSTRUCTIONS

PRECAUTIONS
For safety information, the user must refer to the latest Safety Data Sheet (SDS), prepared in accordance with applicable regulations. The SDS contains detailed information on the physical, toxicological, and safety characteristics of the product.

DISPOSAL AND ENVIRONMENTAL PRECAUTIONS
Do not release the product or empty containers into the environment. For detailed disposal instructions, refer to the most recent Safety Data Sheet (SDS)

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TECHNICAL FEATURES
(average values)

WMA-WINFORCE complies with the requirements defined in **ENV 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 meets the minimum requirements of **EN 1504-6** ("Anchoring of steel reinforcement").

FEATURES	STANDARD	RESULTS
Maximum aggregate size	-	3.0 mm
Appearance	-	Powder
Colour	-	Grey
Mixing water per 25 kg bag	-	3.30-3.70 L
Compressive strength (at 28 days, +20°C)	UNI EN 12190	> 85 MPa
Flexural strength (at 28 days)	Uni EN 1015-11	> 9,5 MPa
Fresh mix density	UNI EN 12350-6	2250 kg/m^3
Adhesion to substrate (at 28 days)	UNI EN 1542	> 7 Mpa
Bond to smooth steel (at 28 days)		> 4,5 MPa
Adhesion to steel with improved adhesion (at 28 days)		> 35 MPa
Reaction to fire (Euroclass)	UNI EN 13501-1	A 1
Pot life of mixture		60 minutes
pH of mixture		> 12
Chloride ion content	UNI EN 1015-17	≤ 0,05 %

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VOLATILE ORGANIC COMPOUNDS EMISSION

PARAMETER	MAX. ALLOWED CONCENTRATION (µg/m³)
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. 392-2017-00404102_G_EN_02.

The product complies with the requirements of Directive 2003/53/EC.

PRODUCT FOR PROFESSIONAL USE ONLY

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winkler® Advanced Building Material

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