PRODUCT DATA SHEET

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CE

WR02 - WINREPAIR

COMPLYING WITH EU NORM
UNI EN 1504-3
R 4
MORTAR FOR REPARATIONS

DESCRIPTION OF THE PRODUCT

Cement-based, pre-mixed pouring mortar formulated with additives to control shrinkage during both the plastic and hardened phases. The product contains superplasticizers and carefully selected aggregates with an optimized granulometric distribution. Developed by WINKLER Research & Development Laboratories.

FIELDS OF USE

The product is suitable for restoring concrete structures requiring cast or poured mortars, as well as for repairing industrial flooring and concrete floors in shopping centres and warehouses. It can also be used for the restoration of manholes and inspection chambers, and for repairing roadside sidewalks. The mortar is ideal for fixing signposts and for securing concrete poles used for electrical or telecommunications lines. Additionally, the product is suitable for installing urban furniture and for anchoring bollards and protective barriers.

SURFACE PREPARATION

Remove any damaged or deteriorated concrete, if necessary. Sandblast or wash thoroughly with a high-pressure water jet to ensure the surface is clean and sound. The substrate must be free from salts, oils, greases, friable parts, and any foreign or anti-adhesive substances. Prior to application, saturate the substate with water, ensuring it is moist but not waterlogged at the time of product application.

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.

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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.

APPLICATION

Mix the product until a homogeneous mixture is obtained. Pour the product onto the prepared surface and apply **WR02-WINREPAIR** as needed, smoothing the surface with a spatula and/or trowel.
For restoration work that will be asphalted, we recommend applying a layer at least 3 cm thick to ensure proper adhesion of the bituminous coating and to withstand subsequent road traffic without deformation.

CONSUMPTION

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.

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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)

TECHNICAL FEATURES
(average values)

WR02-WINREPAIR complies with **EN 1504-9** ("Products and systems for protecting and repairing concrete structures: definitions, requirements, quality control, and conformity assessment") and meets the minimum requirements of **EN 1504-3** ("Structural and non-structural repairs") for **R4**-class structural mortars.

FEATURES	STANDARD	RESULTS
Maximum aggregate size	-	3 mm
Appearance	-	Powder
Colour	-	Grey
Mixing water per 25 kg bag	-	4.20-4.50 L
Compressive strength (28 days, +20°C)	UNI EN 12190	> 60 MPa
Density	UNI EN 12350-6	2250 kg/m^3
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 %
Capillary water absorption	UNI EN 13057	< 0.5 (kg/m$^2 \cdot$ h ^{0,5})

winkler® Advanced Building Material

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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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