PRODUCT DATA SHEET

PRE-ONE®

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CE

CONFORME ALLA NORMA EUROPEA
UNI EN 1504-3
CC R2
MALTA DA RIPARAZIONE

DESCRIPTION OF THE PRODUCT

One-component, quick-setting, thixotropic mortar specifically designed for application on damp surfaces and under extreme temperatures (from 0°C to +45°C). The product contains additive agents that control shrinkage in both the plastic and hardened stages, as well as selected inert fillers with an optimal particle size distribution.
Formulated by WINKLER Research & Development Laboratories.

FIELDS OF USE

Product designed for repairing areas up to 2 m^2, both horizontally and vertically, on concrete foundations, cementitious screeds, plaster, and similar substrates prior to the application of subsequent layers of **ONE®**, **ONE VERTICAL®**, or **ONE FLOORING®**.
The product offers excellent workability and can be applied in thicknesses ranging from 2 to 20 mm, even in a single coat.

SURFACE PREPARATION

Remove all degraded concrete. If necessary, carefully sand or wash the surface with a pressure washer.
The substrate must be free from salts, oil, grease, dust, loose or friable material, and any foreign or non-adherent substances. Dampen the substrate completely before application.
For surfaces with oil stains, proceed as follows: remove approximately 2 mm of the contaminated surface layer, clean off dust, and immediately apply **ONE PRIMER®** (primer for oily substrates) with a roller or flat brush. Immediately broadcast quartz 01-05 (400-500 g/m^2) onto the fresh primer. Wait at least 24 hours before removing excess quartz and repairing holes with **PRE-ONE®**.

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RECOMMENDATIONS

Do not add cement or any additives.
Do not use the product if the packaging is damaged.
Do not add water once the mix has begun to set.
Do not apply in tarmac or bitumen-treated surfaces.
Do not apply on smooth, non-porous surfaces.

WARNINGS

If necessary, continue to dampen the surface after application to maintain proper curing conditions. Store the product, prior to use, in a dry environment protected from frost and humidity. Mix only with clean, cold water. Fresh mortar residues can be removed from tools using running water; while once hardened, cleaning can only be performed by mechanically. Extreme environmental conditions, such as high or low temperatures, strong winds, or generally unfavourable weather, may affect the workability and setting times of the product. Protect the product from direct sunlight during the first few hours after application.

APPLICATION

Mix the product thoroughly with clean water (refer to the quantity specified in the "TECHNICAL DATA" table) until a homogeneous, lump-free consistency is obtained. Apply the mixture using a trowel or smooth putty knife.
The product may be applied at temperatures between 0°C and + 45°C. For repairs covering larger areas than 1 m^2 (up to a maximum of 2 m^2) and for thicknesses greater than 1 cm, apply the product in two successive coats. In this case, any surface cracking that may appear after the first coat can be rectified with the application of the second coat.
After curing, sand (file) the **PRE-ONE®** surface and remove all dust before applying the subsequent liquid protection layer.
For overcoating with **ONE®**, **ONE VERTICAL®**, or **ONE FLOORING®**, observe the waiting times indicated in the following table.

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WAITING TIMES FOR OVERCOATING

Temperature of Application	Overcoating After
+ 20 °C	12 h
+ 15 °C	18 h
+ 10 °C	18 h
+ 5 °C	24 h
0 °C	24 h

CONSUMPTION
1,7 kg/m² 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 value)

FEATURES	RESULTS
Appearance	Powder
Colour	Grey
Water required (L) per 15 kg bag	2.85 – 3.00 L
Water required (L) per 25 kg bag	4.75 – 5.00 L
Density of the mixture	1.80±5 g/m^3
pH	>12
Pot life at +20°C	10-15 minutes
Setting start at +20°C	17-20 minutes
Setting end at +20°C	27-30 minutes

PERFORMANCE OF THE PRODUCT IN SERVICE

Adhesion to Substrate after 28 days (according to EN 1542) – expressed in N/mm^2	
Concrete	> 1.8
Fibre cement	> 0.75
Brickwork	>1.0

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PERFORMANCE OF THE PRODUCT IN USE ACCORDING TO UNI EN 1504-3

Compressive strength (EN 12190)	≥ 20 N/mm^2
Flexural strength (EN 12190)	≥ 1.5 N/mm^2
Chloride ion content (uni en 1015-17)	≤ 0.05%
Adhesion bond: concrete MC (0.40) (UNI EN 1542)	≥ 1.5 N/mm^2
Restrained shrinkage/expansion (UNI EN 12617-4)	≥ 0.8 N/mm^2
Thermal compatibility	≥ 0.8 N/mm^2
Reaction to fire	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. 392-2017-00404102_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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