

COMPLIANT WITH EU NORM
UNI EN 1504-3
<b>CC R2</b>
REPAIR MORTAR

## NATURE OF THE PRODUCT

One component, quick-setting, thixotropic mortar, specially for damp bases and extreme temperatures (from 0° to +45°C). Product with additive agents to control shrinkage in both the plastic and hardened stage, inert agents selected in perfect granulometric curve, formulated in the WINKLER Research & Development laboratories.

## USES

Product used to repair patches (up to 2 m<sup>2</sup>), both horizontally and vertically, of concrete foundations, cementitious screeds, plaster etc. before applying subsequent layers of **ONE, ONE VERTICAL or ONE FLOORING**.

Product with excellent workability that can be applied at thickness from 2 to 20 mm also in a single coat.

## SURFACES PREPARATION

Remove the degraded concrete, if needed carefully sand or wash the surface, which should be free from salt, oil, grease, flaky parts and foreign or non-stick substances, with a pressure washer and water. Wet base thoroughly before application.

In the presence of oil stains proceed as described below: remove about 2 mm of the base where oil is present, remove dust and immediately apply **ONE PRIMER** (primer for oily foundations) with a roller or flat brush, continue immediately to dust with quartz 01-05 (400-500g/m<sup>2</sup>). Wait at least 24 hours before dusting and restoring holes with **PRE-ONE**.

## RECOMMENDATIONS

Do not add cement or additives.

Do not use if sack is damaged.

Do not add water when preparation begins to set.

Do not apply to tarmac or surfaces treated with bitumen.

Do not apply to smooth surfaces.

## APPLICATION

Mix well with clean water (see the amount indicated in the table about "TECHNICAL DATA"), until reaching an even mixture, free from lumps. Apply with a trowel or smooth putty knife. The product can be applied at temperatures from between 0°C and +45°C. For repairs of areas greater than 1 m<sup>2</sup> (max 2 m<sup>2</sup>) and for thickness >1 cm, apply product in 2 coats. With this specific way of application, any cracking on the product after the first coat, can be repaired with the second

coat. File the PRE-ONE surface and remove the dust before the subsequent layer of liquid protection. **For overlaying with ONE, ONE VERTICAL or ONE FLOORING, follow the following time table:**

Temperature of application	Over-laying in:
+20°C	12 h
+15°C	18 h
+10°C	18 h
+5°C	24 h
0°C	24 h

### CAUTIONS

If necessary, continue to dampen the surface after application. Store product, before use, away from frost and in an environment protected from humid conditions. Mix with cool and clean water. Fresh mortar can be removed from tools used for its preparation and application with running water. After hardening cleaning can be carried out only mechanically. High or very low temperatures, strong wind or in general unfavourable conditions, could vary the workability and setting times of the product. Protect the product from direct sun, in the first few hours after application.

### CONSUMPTION

1.7 kg/m<sup>2</sup> per mm of thickness.

### PACKAGING

25kg bags

### STORAGE

The product, in its complete packaging, remains stable for 12 months. Store in a dry place, protected from humidity and 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)

Appearance:	powder
Colour:	grey
Water required (lt) per bag (kg 15):	2.85-3
Water required (lt) per bag (kg 25):	4.75-5
Density of the mixture	1.80±5 g/m <sup>3</sup>
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 USE

ADHESION TO SUBSTRATE after 28 days (EN 1542) (N/mm <sup>2</sup> ):	
Concrete	> 1.8
Fibre cement	> 0.75
Brickwork	>1.0

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

Compressive strength (EN 12190)	≥ 20 N/mm <sup>2</sup>
Flexural strength (EN 12190)	≥ 1.5 N/mm <sup>2</sup>
Chloride ion content (uni en 1015-17)	≤ 0.05%
Adhesion bond: concrete MC (0.40) (UNI EN 1542)	≥ 1.5 N/mm <sup>2</sup>
Restrained shrinkage/expansion (UNI EN 12617-4)	≥ 0.8 N/mm <sup>2</sup>
Thermal compatibility	≥ 0.8 N/mm <sup>2</sup>
Reaction to fire	A1

### Volatile Organic Compounds Emission

Parameter	Max. allowed concentration (µ/m <sup>3</sup> )
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 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.