

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

NATURE OF THE PRODUCT

Cement-based premixed pouring mortar, with additives that make it possible to keep shrinkage under control in both the dynamic and hardened phases, super-fluidizers, aggregates selected with a perfect granulometric curve, developed in WINKLER Research & Development Laboratories.

USE

Restoring concrete structures where the use of pouring mortars is required.
Restoring industrial flooring.
Inspection pits and traps.
Repairing concrete flooring in shopping centres, stores.
Repairing street pavements.
Fixing road panels.
Fixing concrete posts for electrical or telephone lines.
Fixing street furniture.
Fixing wayside stones and protection barriers.

PREPARATION OF SURFACES

Remove the damaged concrete. If necessary, sandblast the surface or wash it carefully with a water jet under pressure so as to remove salt, oil, grease, friable elements, any foreign bodies or substances impeding adhesion. Soak the support before application.

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.
If necessary, add reinforcement.

APPLICATION

Blend until obtain an even mixture. The product must be poured on the surface. Pour WR02-WINREPAIR where required and smooth the surface using a spatula and/or a trowel.
In restoration where you need asphaltting, we recommend applying at least a 3-cm thick layer in order to enable the bituminous coat to adhere well and stand the subsequent road traffic without yielding.

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 applying. Store the product, before use, frost-free and in an environment protected from humidity. Mix with cold water. Fresh mortar can be removed with the tools used for preparation and application with running water. After the product has set, they can only be cleaned mechanically.

CONSUMPTION

2.1 kg/m² for each mm of thickness.

PACKAGING

25 kg. bags

STORAGE

If the product is stored in its unopened original packaging, shelf-life is 12 months. Store at temperatures between +5°C and +35°C.

SAFETY STANDARDS

CAUTION

For information about safety standards, users must refer to the most recent Safety Sheet drafted in compliance with currently applicable Safety Standards, containing physical, toxicological and other data about the product used.

ECOLOGY

Dispose of the product and/or empty packaging in appropriate sites. For further information about waste disposal, see the most recent Safety Sheet.

TECHNICAL DATA (average values)

WR02-WINREPAIR is compliant with ENV 1504-9 ("Products and systems for protecting and repairing concrete structures: definitions, requirements, quality control and compliance assessment. General criteria for the use of products and systems") and with the minimum requirements established by EN 1504-3 ("Structural and non-structural repairs") for R4 class structural mortars.

PRODUCT FOR PROFESSIONALS

Maximum diameter of aggregates:	3 mm
Appearance:	dust
Colour:	grey
Mix water per 25 Kg. bag:	Min. 4.20 litres, Max. 4.50 litres
Compression resistance (EN 12190) (MPa):	> 60 (after 28 days at +20°C)
Mix mass (EN 12350-6):	2250 Kg/m ³
Adhesion to the support (EN 1542) (MPa):	> 2 (after 28 days)
Fire resistance (Euroclass):	A1
Mix duration:	60'
Adhesion to the support (EN 1542) (MPa):	> 2 (after 28 days)
Mix pH:	> 12
Chloride ion content (EN 1015-17) (%)	≤ 0.05
Capillary absorption (EN 13057)	< 0.5 (kg/m ² · h ^{0.5})
Custom code	3824 50 90

Volatile Organic Compounds Emission

Parameter	Max. allowed concentration (µ/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

Product in compliance with Directive 2003/53/EC

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.