

COMPLIANT WITH EU RULE

UNI EN 1504-3

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RESTORATION MORTAR

COMPLIANT WITH EU RULE

UNI EN 1504-6

FIXING MORTAR

PRODUCT'S NATURE

Formulated by Winkler R&D laboratories, this product is a quick-drying pourable mortar designed for lift shafts. With extremely low water absorption, the product is mixed with special agents for controlling the shrinkage in the stiffening phase and in the final hardening phase. It is made with selected aggregates designed in a perfect granular curve and with the latest generation super-plasticisers.

USE FIELDS

The product, after hardening, produces a constant pressure on the installation walls which allows it to counteract ingresses of water. The subsequent application of **WINPOX CEMENT TIXO**, will block any residual rising damp.

PREPARING THE SURFACES

Remove the degraded concrete if needed, sandblast or wash carefully with a jet of pressurized water the surface, that must be free of salts, oils, greases, crumbling parts and foreign or anti-stick substances. Soak the substrate before application.

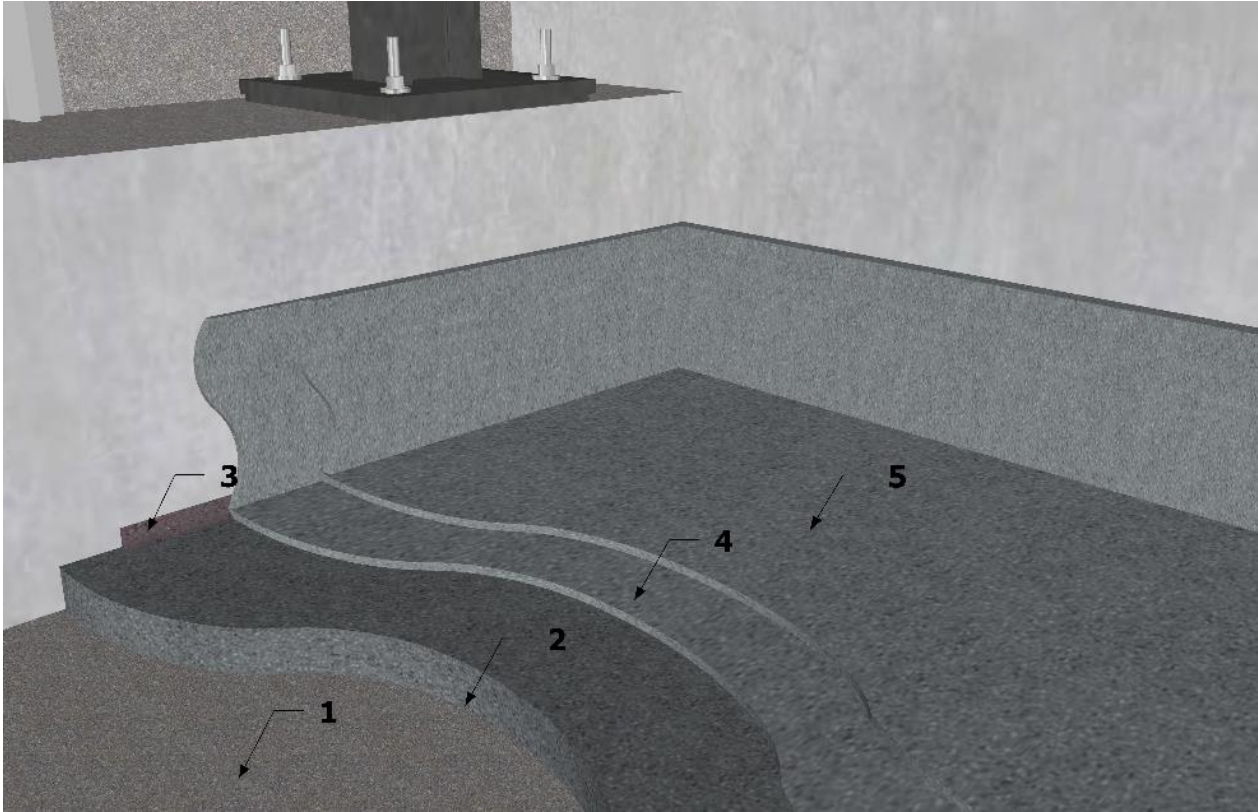
RECOMMENDATIONS

- Do not add cement or additives.
- Do not use if the bag is damaged.
- Do not add water when the mixture begins to set.
- Do not apply on asphalt surfaces or treated with bitumen.
- Do not apply on smooth surfaces.
- If necessary, add strengthening material.

APPLICATION

Mix well until getting a homogeneous mixture. Apply the product by pouring. Pour **WMA SPECIAL EP** into the suitably prepared area of the lift shaft and finish the surface with a spatula and / or trowel. Apply quickly in thicknesses of min. 2 cm and max of 5 cm. After at least 3 days, apply **WINPOX CEMENT TIXO**, in two coats.

How to waterproof a lift shaft



KEY:

1. Structural substrate;
2. **WMA SPECIAL EP**
3. Cove made with **WINPOX CEMENT TIXO**
4. First layer of **WINPOX CEMENT TIXO**
5. Second layer of **WINPOX CEMENT TIXO**

WARNING

Apply between +5°C and +35°C. When outdoor, protect from sun and wind during the first 24 hours and if needed keep on dampening the surface even after the application. Store the product, before use, away from frost and in an environment protected from moisture. Mix with cold water. Remove fresh mortar from the tools with running water. After hardening, cleaning is carried out only mechanically.

CONSUMPTION

About 2.1 kg/m² per mm thickness.

PACKAGING

25 Kg bags – 60 bags per pallet.

STORAGE

The product has 12 months stability if properly packed and store in a cool, dry place, 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)

WMA SPECIAL EP complies with the requirements defined in ENV 1504-9 ("Products and systems for protection and repair of concrete structures: definitions, requirements, quality control and conformity assessment. General principles for the use of products and systems ") and the minimum requirements of EN 1504-3 ("Structural and non-structural repair products") and EN 1504-6 ("Steel reinforcement anchor").

Max diameter aggregates:	3 mm
Appearance	powder
Color	grey
Water for mixture per 25-kg bag:	Min 3.30 litres, Max. 3.70 litres
Specific weight (EN 12350-6):	2250 kg/m ³
Mixture pot-life:	10'
Beginning of set:	15'
Mixture pH	>12

MECHANICAL CHARACTERISTICS OF THE PRODUCT IN COMPLIANCE WITH UNI EN 1504-3

Compressive strength (EN 12190):	≥ 45 N/mm ²
Mechanical flexural strengths (EN 12190):	≥ 5.5 N/mm ²
Adhesion to substrate (EN 1542):	≥ 4 N/mm ²
Restrained shrinkage/expansion (EN12617-4):	≥ 2.0 MPa
Carbonation resistance (EN 13295):	Pass

PRODUCT'S FEATURES IN COMPLIANCE WITH UNI EN 1504-6

Resistance to pull-out (UNI EN 1881):	Displacement ≤ 0.6 mm at 45 kN load
Adhesion to smooth steel	≥ 4.0 N/mm ²
Adhesion to steel with improved adhesion:	≥ 35 N/mm ²
Fire reaction (Euroclass):	A1
Chloride ion content (EN 1015-17) (%)	≤ 0.05

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.