





-  CONCRETE REPAIR
-  RIPRISTINO DEL CALCESTRUZZO
-  RESTAURATION DU BÉTON
-  NAPRAWA BETONU



MALTAFIX

High strength, fast setting and non-shrink grout CE-marked R3 (EN 1504-3)

Description

MALTAFIX Malta is a pre-mixed and ready to use grout to be mixed by simply adding clean water. The product forms a thixotropic mix that sets within 20 minutes (at +20°C) and reaches high strength within one hour after application and consequently it is ideally suited to be loaded within a short time from application.

Once applied, this mortar exhibits a high resistance to weathering.

MALTAFIX meets both the requirements set out in ENV 1504-9 ("Products and systems for the protection and repair of concrete structures: definitions, requirements, Quality Control and evaluation of conformity. General principles for the use of products and systems") and the requirements of the European standard EN 1504-3 ("Structural and non-structural repairs") for class R3 structural mortars.

Where to Use

MALTAFIX is used for:

- quick repairs of industrial floorings and exterior yards made of either concrete or asphalt;
- compensating either screeds or industrial floors made of concrete prior to subsequent treatments;
- repairs and renovations of sidewalks and natural stone yards grouting mortars;
- fixing poles, pipes, railings and filling cracks, splitting and grouting;
- realizing fast-setting coving between walls and floors;
- realizing concrete covers over the spacers after dismantling wooden formworks in single-faced concreting;
- attaching hooks, rods, clamps.

MALTAFIX is not a suitable product for the realization of any extended addition/fill.

Advantages

MALTAFIX:

- has a high compressive strength starting from an hour after application;
- can be applied in thicknesses ranging from 4 to 6 cm in a single coat;
- is fast-setting and anti-shrinking.

MALTAFIX not only sets fast setting, but also dries very quickly:

| | % water content | |
|----------------|-----------------|----------------|
| | thickness 1 cm | thickness 2 cm |
| after 10 hours | 6.0 % | 6.8 % |
| after 24 hours | 3.5 % | 4.0 % |

Application

Substrate Preparation

Repairing damaged concrete:

- thoroughly clean and remove all loose particles;
- strongly roughen the substrate;
- brush or sandblast any existing reinforcing bar that was uncovered the day before during the preparation and pre-treatment phase to be done with 2 coats of CEM-OX;
- wet the substrate until saturation is achieved.





Repairing asphalt large squares:

- thoroughly remove all dust from the area to be repaired;
- make the edges of the asphalt to repair be vertical;
- moisten the substrate if it is dry.

Making coves and concrete covers over the spacers:

- thoroughly wet the surface and proceed with MALTAFIX.



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Mixture Preparation

Mix MALTAFIX with 4 litres of clean water (cool water in summer) every 25 kg of premixed powder and mix slowly, with at low revolutions professional mixer (with whisk attachment), until a lumps free mixture is achieved.

Mix only the amount of product utilizable within 15 minutes (at +20°C).

Product Application

Apply with a trowel or a spatula.

As soon as the mortar begins to set, do the tamping.

Product Curing

During hot weather it is imperative to cure the product wetting the treated area for at least 24 hours after application.

Coverage

To obtain approximately 1 cm thick hardened product, approx. 21 kg/m² of product are required.

Warnings

- Apply at temperatures ranging from +5 to +35°C.
- Avoid applying in direct sunlight, ensuring that the product is kept in the shade before use.
- In hot weather, the applied product shall be cured by wetting the part, if needed, at least during the first day.
- Do not apply in thicknesses lower than 1 cm.
- Do not apply in thicknesses greater than 4-6 cm.
- If the product is in the setting phase cannot be remixed with the addition of water.





Color

The product is available in gray.

Specifications

| PRODUCT IDENTIFICATION DATA | | | |
|--|-------------------|-----|----------------|
| Class according to EN 1504-3 | ---- | | R3 |
| typology | ---- | | CC |
| consistency | ---- | | powder |
| maximum grain size, EN 12192-1 | mm | | 0.63 |
| chloride ion content - minimum requirement: ≤0.05% - EN 1015-17 | % | | ≤ 0.05 |
| PRODUCT APPLICATION DATA (at 20°C and 50% RH) | | | |
| mixing water | % | | 15 to 16.5 |
| mixture consistency | ---- | | thixotropic |
| bulk density of fresh mortar, EN 1015-6 | kg/m ³ | | 2100 |
| application temperature | ° C | | from +5 to +35 |
| mixture pot- life | min | | approx. 15 |
| setting time (start-end) | min | | 15-20 |
| commissioning time | hours | | 24 |
| minimum applicable thickness | mm | | 10 |
| maximum thickness per coat | mm | | 40-60 |
| FINAL PERFORMANCE (in accordance with the requirements of EN 1504-3) | | | |
| compressive strength, EN 12190 | *after 1 h | MPa | 3 |
| compressive strength, EN 12190 | *after 4 h | MPa | 5 |



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| | | | |
|---|-------------|-------------------------------------|--------|
| compressive strength, EN 12190 | *after 24 h | MPa | 17 |
| compressive strength, EN 12190 | *after 7 d | MPa | 30 |
| compressive strength, EN 12190 | *after 28 d | MPa | ≥ 35 |
| flexural strength, EN 12190 | *after 7 d | MPa | 6 |
| flexural strength, EN 12190 | *after 28 d | MPa | 7 |
| secant modulus of elasticity in compression, EN 13412 | | GPa | ≥ 22 |
| adhesion to concrete (substrate type MC-0.40 according to EN 1766), EN 1542 | after 28 d | MPa | > 2 |
| resistance to carbonation, EN 13295 | | ---- | past |
| capillary absorption, EN 13057 | | kg/m ² ·h ^{0,5} | < 0,05 |
| thermal compatibility as measured by adhesion (EN 1542) after 50 cycles of freeze-thaw by immersion in de-icing salts, EN 13687/1 | | MPa | > 1,5 |
| Cr (VI) soluble in water, EN 196-10 (*) | | mg/l | ≤ 0,02 |
| Reaction to fire | | Euroclass | A1 |

* This test is not required for CE marking according to EN 1504-3.

Note: The test method refers to regulations as indicated on the table.

Labelling, packaging and storage

| | |
|----------------------|--|
| Indication of danger | X _i |
| Packaging | <ul style="list-style-type: none"> ▪ 5 kg polythene bag in a 5 bags box - 24 boxes per pallet. ▪ 25 kg bag in a 48 bags pallet |
| Storage | 6 months when stored in the original unopened packaging, in a dry place at temperatures ranging from +5°C to +35°C. The product is moisture sensitive. |

Legal notice

Tips on how to use our products match the current state of our knowledge and do not imply any assumption of responsibility or/and liability for the final result of works. Therefore, customers are not exempt from the responsibility to verify the suitability of products for use and final aims through preliminary tests. The website www.nordresine.com contains the latest revision of this datasheet.

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