

This product has been granted the European conformity mark  (System 2+) PRODUCT No. : 3.129

## PREMHOR GROUT

Fluid, non-shrink and highly resistant mortar for filling and anchoring purposes

### DESCRIPTION:

**PREMHOR GROUT** is a non-shrink mortar which is very fluid and easily levelled and which has high mechanical strength. When hardened the product is highly impermeable to water and oils. Due to its special formula, **PREMHOR GROUT** proves ideal for use in filling and anchoring tasks which require high mechanical properties.

### USES:

**PREMHOR GROUT**, due to its high mechanical strength and its excellent fluidity, is essential for use in:

- Anchorings: machinery, bolts, crane rails and bridge cranes, concrete posts, columns in prefabricated buildings etc.
- Filling in machinery benches, imperfections etc.
- Repairing confined cavities in concrete structures.
- Reinforcing concrete structures.

### SURFACE PREPARATION:

The surface must be solid, firm and rough and must be clean and free from grease, oil, paint residue, grout, loose materials, sand, dust or any other contaminant. We recommend that the surface is properly prepared, preferably by mechanical means (sand blasting, vigorous brushing etc.). Surfaces that are very smooth and/or barely porous should be treated in much the same way, preferably by mechanical means, so that they become suitably rough and porous.

When repairing concrete surfaces that have suffered superficial damage, brush them vigorously with a wire brush until the surface is firm and free from any fragmentation. Then wash the area with water. It is important to saturate the surface that is going to be treated but without leaving any puddles. The best way to do this is to soak the surface various times until it can no longer absorb any more water, or else to cover the clean surface with water for a few hours, and to then remove it just before applying the product. This is particularly important when dealing with very absorbent surfaces. If you have to repair areas of concrete in which the framework is visible, sand them down and then apply **TECMA PAINT OX**, to protect the framework.

### INSTRUCTIONS:

Begin by mixing **PREMHOR GROUT** with 3/4 of the allocated amount of water. To do so it is best to use a mechanical shaker or a traditional cement-mixer. Having mixed it well, add the remaining water and beat it at a low speed to leave the product completely smooth. Do not let any air get into the mixture. Use clean water and mix until it turns into a smooth, lump-free paste. We recommend you mix one 25 kg bag of **PREMHOR GROUT** with 3.5 litres of water (14% water), although depending on the fluidity that is desired, either 13% could be used (for a plastic consistency) or 15% (for a fluid consistency), without exceeding in any case the maximum proportion of water. Once the mixture is ready, apply the product immediately. After you have prepared the mixture, no more than 20 minutes should go by before you apply it.

### APPLICATION:

Once mixed, use a stick to pour the material into the gap - this same stick can be used to stir the mixture. Two openings should be made when filling in spaces beneath slabs: one through which to add the mortar and the other to allow the displaced air to escape.

Thicknesses of between 1 and 4 cm are acceptable. If you need to apply a thicker amount of the product (up to 10 cm) or if you need to fill in large surface areas, we recommend you make up a micro-concrete by adding 12.5 kg of between 3 and 10 mm aggregates for every 25 kg bag of **PREMHOR GROUT**. Adding 1 kg of **FIBERMESH 6130** for every m<sup>3</sup> of the mixture is recommended in order to noticeably improve the tensile strength and the resistance to abrasion and impact of this micro-concrete.

### CURING:

Once the product has been applied it is best to let it cure, protecting the open-air zones by spraying **TECMA HMF** onto the fresh mortar or else by continually applying water and/or damp burlap.

Such curing is essential in every case and should be carried out over at least 2 to 3 days.

#### SPECIAL APPLICATIONS:

When an high degree of adherence is called for due to the special nature of the application (repairing surfaces that are subjected to heavy and intense traffic or structural concrete etc.) we recommend that you apply a primer to the surface when it is perfectly dry - use products such as **TECMA PAINT AD** or **TECMA PAINT R** and that you then apply **PREMHOR** while the primer is still fresh.

#### PERFORMANCE:

One 25 kg bag of **PREMHOR GROUT** fills a volume of between 12.5 and 14 litres depending on how much water is used.

#### CLEANING TOOLS:

All the tools and equipment that are used should be cleaned with water immediately after use, before the product hardens.

#### SPECIAL RECOMMENDATIONS:

- Do not mix more **PREMHOR GROUT** than is needed for a correct application.
- Do not add any other material to the product other than those that are specifically required for the mixture.
- Do not apply when the temperature is below 8°C
- Do not apply to frozen or frosty areas, or if such conditions are expected in the near future.
- Dampen the surface before applying **PREMHOR GROUT**.
- Protect applications from wind, sun and excessively low relative air humidity.
- Do not apply a coat any thicker than 4 cm at any one time.
- Do not add more water to the mortar than the specified amount.
- Avoid inhaling the powder when mixing it. Use gloves, protective glasses and a mask.

#### ACCREDITATIONS:

Marked **CE** as compliant with standard **EN 1504-3 (system 2+)** and with European construction products regulations.

#### TECHNICAL DATA:

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|---|---|
| Apparent density of the component in powder form      | 1.36 g/cm <sup>3</sup>                          |
| Granulometry (EN 12192-1)                             | 0 – 3 mm  |
| Pot life  | Approx. 20 minutes                              |
| Temperature of application                            | from +5 to +30°C                                |
| Apparent density of the fresh mortar (EN 1015-6)      | 2170 kg/m <sup>3</sup>                          |
| Setting time (EN 13294)                               | Initial: 1-2 hours / Final: 3-4 hours           |
| Chloride ions content (EN 115-17)                     | < 0,05 %  |
| Compression strength (EN 196-1) (13% water)           | 41.4 MPa (3 days) / 67.5 MPa (28 days)          |
| Flexural strength (EN 196-1) (13% water)              | 8.1 MPa (3 days) / 9.8 MPa (28 days)            |
| Adherence on a concrete structure (EN 1542) (28 days) | > 2.0 MPa                                       |
| Controlled shrinkage / expansion (EN 12617-4)         | > 2.0 MPa / Compliant                           |
| Elasticity module (EN 13412)                          | > 20 GPa  |
| Carbonation resistance (EN 13295)                     | Pass  |
| Dangerous substances (EN 1504-2)                      | Complies with section 5.4 of standard EN 1504-3 |

#### PRESENTATION AND STORAGE:

**PREMHOR GROUT** comes in 25 kg net multiply paper bags. **PREMHOR GROUT** must be kept sealed in the original bags. The estimated storage period, in the original bags, should not exceed 12 months.

ED. 2.013/5