This product has been granted the European conformity mark CE (System 2+) **PRODUCT No. : 3.122**

PREMHOR R

Quick-setting thixotropic mortar for repairing concrete and for quick fastening purposes

DESCRIPTION:

An extremely rapid, non-shrink, thixotropic mortar designed for the refurbishment, repair and restoration of concrete, and for quick fastening purposes. Due to its special formula, repairs carried out with **PREMHOR R** are waterproof. This explains why it is also used to create scotias for wall joints.

USES:

PREMHOR R due to the fact that it sets and hardens very quickly, is essential when repairing and restoring concrete in wintertime (concrete patching, repairing cornices, window sills, lintels and eaves, the unions between walls and between walls and the floor, repairing cavities, indentations and cracks, repairing concrete in floors, bridges, tunnels, dams, cisterns and water tanks etc.) Furthermore, **PREMHOR R** is also highly recommended for rapid fastenings where the product has to set and harden quickly.

SURFACE PREPARATION:

The surface must be solid (with a tensile strength of more than 1 NB/mm^2), 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 imperfections and patches, the surface should be cleaned up in advance and any loose material eliminated, using a chisel if necessary, so that the edges of the area to be treated are left straight.
When repairing cracks or fissures, open them up properly along their breadth, length and depth so that they become vertical cuts. Leave cross sections and wash the zone that is to be repaired with water.
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. 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.
Saturate very absorbent surfaces with water - avoiding puddles - and then wait until the surface takes on a matte appearance before you begin to apply the product.

ADHERENCE GROUT

Before applying **PREMHOR R** we recommend that you apply an adherence grout made from **PREMHOR R** and approximately 30% of water. Use a brush to apply it to the entire surface that is to be repaired and bear in mind that you have to apply **PREMHOR R** to the surface while the grout is still fresh - you will have approximately 5 minutes.

INSTRUCTIONS:

PREMHOR R should be mixed with clean water and stirred until it becomes a homogenous, lump-free paste. We recommend that you mix one bag of **PREMHOR R** with 3.75 - 4.25 litres of water. Do not add more water than recommended.
Once the mixture is ready, apply the product immediately. After you have prepared the mixture, no more than 5-10 should go by before you apply it.
To ensure that the adherence grout remains fresh, do not mix more **PREMHOR R** than can be used within the pot life of the paste.

APPLICATION:

The paste made from **PREMHOR R** and water should be applied to the areas that need to be repaired. Use a trowel to fill in cavities, imperfections, patches, cracks etc. Once you have spread the paste, wet the trowel and use it to smooth it down.

Avda. La Fundición, 69 - Pol. Ind. Santa Ana - Autovía N-III, Km. 15 - 28529 Rivas Vaciamadrid (Madrid) ESPAÑA.
Tlf.: 916 664 711 - Fax: 916 664 311 - Internet: http://www.satecma.es - e-mail: correo@satecma.es

You should not try to apply a layer of **PREMHOR R** of more than 2 cm at any one time. Apply several coats if you need a thicker layer.
Once you have applied **PREMHOR R** ensure that it is kept damp by spraying it with water over the next 8 hours.

SPECIAL APPLICATIONS:

To strengthen and increase adherence to certain surfaces, **PREMHOR R** can be mixed with a solution of two parts of water and one part of **CRYLADIT.** One bag of **PREMHOR R** needs approx. 2.50 litres of water and 1.50 litres of **CRYLADIT**. First of all, mix the water with the **CRYLADIT** and then add this mixture to the **PREMHOR R**. You can also use this mixture of water and **CRYLADIT** in the adherence grout.
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 R** while the primer is still fresh.

SPECIAL RECOMMENDATIONS:

- To apply the product correctly, do not mix more **PREMHOR R** than you need. Pay attention to the pot life of the paste and make sure that the adherence grout is fresh.
- 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 falls below 5ºC or if frost is expected in the next 24 hours.
- Do not apply on frozen or frosty surfaces.
- Dampen the surface before applying **PREMHOR R**.
- Ensure that when you have applied **PREMHOR R** it is kept damp for the next 8 hours, particularly in warm weather. Spray on **TECMA-HMF** to prevent dehydration
- Do not apply a coat any thicker than 2 cm at any one time.
- Do not add more water to the mortar than the specified amount.

ACCREDITATIONS:

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

TECHNICAL DATA:

Apparent density of the component in powder form	*1.28 g/cm^3*
Granulometry (EN 12192-1)	*0 – 2 mm*
Temperature of application	*from +5 to +30ºC*
Pot life	*5 min. (30ºC)/10 min. (20ºC/30 min. (10ºC)*
Apparent density of the fresh mortar (EN 1015-6)	*1990 kg/m^3*
Setting time (EN 13294)	*Initial: 15 min. / Final: < 30 min.*
Chloride ions content (EN 115-17)	*< 0.05 %*
Compression resistance (EN 12190)	*> 35.0 MPa*
Flexotensile strength (EN 196-1)	*> 7.0 MPa*
Adherence on a concrete structure (EN 1542) (28 days)	*> 1.5 MPa*
Controlled shrinkage / expansion (EN 12617-4)	*> 1.5 MPa / Compliant*
Elasticity module (EN 13412)	*> 15 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 R comes in 25 kg net multiply paper bags. **PREMHOR R** must be kept sealed in the original bags. The estimated storage period, in the original bags, should not exceed 12 months.

ED. 2.013/4

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