IMPLAREST® C

GlobalEPD
A VERIFIED ENVIRONMENTAL DECLARATION

DESCRIPTION

Corrosion protection for steel reinforcements from the Morcemrest restoration system, in compliance with EN 1504-7. This product can be combined with other repair mortars from the Morcemrest range. Cementitious anti-corrosion mono-component primer, modified with polymers for protecting reinforcement. When mixed with water a grout is obtained which is applied to the previously cleaned steel. Due to its high pH (approximately 12) level Implarest C creates a passivation layer on the surface of the reinforcement, halting the corrosion process. Implarest C is a corrosion protector classified in compliance with EN 1504-7.

TECHNICAL CARACTERISTICS

Portland cement, selected aggregates, polymers and additives with good dispersion. Product formulated with corrosive inhibitors.

ADVANTAGES AND USES

- Treating reinforcements with Implarest C is highly recommendable for applications where:
  - The depth of coverage is < 10 mm.
  - When the concrete is contaminated with chlorides.

- Mono-component product.
- It is only necessary to add water.
- High alkaline product.
- Passivation of steel surfaces.
- Gray colour.
- Permits control of coverage.
- Compatible with cements and steels used for repairs.
- Good adhesion to substrate.
- Cures in damp conditions.
- Easy to apply with brush.
- Cement based.
- Free from solvents.
- As a bonding bridge for the MORCEMREST and MORCEMSEAL range of mortars.

SUITABLE SUBSTRATES

- Eliminate damaged concrete leaving a minimum space of 20 mm beyond the corroded reinforcement. The area of application must be 50 mm thicker on the edges of the corroded reinforcement.
- Remove any remains of rust from the reinforcement using a needle gun or abrasive sandpaper.
- Remove any remaining dust and particles from the process with pressurised water. The reinforcement can be lightly dampened before applying Implarest C.

Rev. 25_03 · This revision cancels all previous ones. Please, obtain the latest version from our web site · www.grupopuma.com · (+34) 957 76 40 40

grupopuma

IMPLAREST® C

APPLICATION PROCEDURE

MIXING

- Mix Implarest C in a suitable recipient with clean water using a low speed mixer until a uniform and creamy consistency is obtained.
- Add between 260 and 280 ml of water per kilo depending on the consistency necessary for application conditions.
- Let the mixture stand for 5 minutes and stir just before applying.

APPLICATION

- Apply the mixed product with a brush in a uniform layer at least 1 mm thick) all over the uncovered surface of the steel bar.
- On areas of greater corrosive aggression, once the first layer has hardened sufficiently (40-90 minutes), apply a second layer in the same way as the first.
- When the product has started to harden and before it dries, apply the repair mortar (fresh-on-fresh).
- For an effective protection against corrosion, 2 layers of 1 mm should be applied.

CURING

- Do not apply Implarest C in temperatures lower than 5°C or it is expected to be lower than 5°C in the following 24 hours.

CLEANING AND MAINTENANCE

- The mixing equipment must be cleaned with water. The cured material should be cleaned mechanically.

RECOMMENDATIONS

- Implarest C is a cement-based product and could therefore irritate the eyes, skin and mucous membranes which should be protected with gloves and goggles while using the product.
- It is recommendable to wear dust masks.
- Rinse any splashes to the skin or eyes immediately with cold water.
- If irritation persists, consult a doctor.
- If product is accidently ingested, drink some water and consult a doctor.
- The product datasheet contains full safety information.

PACKAGING AND STORAGE

1 and 4 kg tub. Implarest C must be stored in a sheltered dry place, protected against icy weather conditions and humidity. Product shelf life 1 year.

TECHNICAL DATA

(Statistical data obtained under standard conditions)	
Appearance	Gray cementitious powder
Consumption	According to use
Shear bond strength (0.1 mm slippage)	9.4±0.1 kN
Protection against corrosion	Complies
Useful life of mixture (20°C)	45 min.
Minimum temperature for application	5°C
Maximum temperature for application	35°C

Rev. 25_03 · This revision cancels all previous ones. Please, obtain the latest version from our web site · www.grupopuma.com · (+34) 957 76 40 40

grupopuma

CE MARK

CE

0370

GRUPO PUMA ESPAÑA
Avda. Agrupación Córdoba 17 14014 Córdoba
24

Nº: 21054

0370-CPR-2578

1504-7
IMPLAREST C

Corrosion protection product for concrete repair and protection. Reinforcement corrosion mortar,

Adhesion through shear:	Pass
Protection against rust:	Pass

ENVIRONMENTAL PRODUCT DECLARATION (EPD)

This mortar has been elaborated with aggregates located close to our production centres, which has, reduce the emission of greenhouse effect gases thanks to transport and ISO 14001 certified production centres with environmental management, with a firm commitment to sustainability and respect for the environment.
Type III eco-friendly labelled mortar (The strictest one) verified Environmental Product Declaration by AENOR.

LEGAL DISCLAIMER

The instructions for use are given according to our tests and knowledge and do not imply any commitment by GRUPO PUMA nor free the consumer from the examination and verification of the products for their correct use. Claims must be accompanied by the original packaging to allow a proper traceability.

GRUPO PUMA is not responsible, in any case, for the application of its products or constructive solutions carried out by the application company or other parties involved in the process and / or execution of the work, limiting the responsibility of GRUPO PUMA exclusively to the damages directly attributable to the supplied products, individually or integrated in systems, due to failures in their manufacturing process.

In any case, the drafter of the work project, the technical management or the person responsible for the work, or collaterally the application company or other parties involved in the process and / or execution of the work, must ensure the suitability of the products addressing the characteristics of them, as well as the conditions, support and possible pathologies of the work in question.

The values obtained by GRUPO PUMAS's products or its constructive solutions that, as the case may be, are determined by the EN standards or any other regulation that applies to it in each case refers exclusively to the conditions specifically stipulated in said regulation and that are referred to, among others, to certain characteristics of the support, humidity and temperature conditions, etc. without being them required in the tests obtained under different conditions, all in accordance with the relevant regulation.

Rev. 25_03 - This revision cancels all previous ones. Please, obtain the latest version from our web site - www.grupopuma.com - (+34) 957 76 40 40

grupopuma