



ALCOLIN PERMOCRETE 1K PRIMER

Description

Alcolin Permocrete 1K Primer is a single component fine textured, highly flexible cement based primer containing corrosion inhibitors for the repair and protection of steel reinforced concrete. The specially selected cements, corrosion inhibitors and polymers contained in Alcolin Permocrete 1K Primer produce a coating with exceptional adhesion to steel, concrete and masonry materials. The excellent corrosion inhibiting ability originates from the water resistant finish, high alkalinity, and excellent adhesion to metal as well as the addition of corrosion inhibitors to prevent rust formation. Alcolin Permocrete 1K Primer has been formulated to work in conjunction with Alcolin Permocrete Structural Repair Mortar and Alcolin Non Shrink Grout.



Features & Benefits

- Cement based
- 1K system
- Red colour
- High flexibility
- High alkalinity
- Contains corrosion inhibitors
- Excellent adhesion to metal
- cost effective repair system
- easy and time efficient application
- makes it possible to identify which surfaces have been treated
- resists thermal changes
- resists acid forming compounds
- prevents rust formation
- sound impenetrable protective coating

Applications

Permocrete 1K Primer is suitable for the priming and protection of metal rebar's prior to the repair of structural concrete. It is not only a suitable primer for metal surfaces but also for concrete and other masonry substrates prior to further treatment with other cement based repair products. Permocrete 1K Primer is ideal for replacing expensive epoxy or zinc rich acrylic primer systems.

Adhesion

Excellent adhesion to metal, cement and concrete surfaces.

Limitations

- Do not apply externally when there is a risk of rain or frost within six hours after application.
- Working in direct sunlight, temperatures exceeding 35°C and strong winds will result in premature drying of the product. Working in temperatures below 10°C will retard setting.
- Not suitable for application onto friable and chalking surfaces.
- Not suitable for use in areas subject to rising damp or in permanently wet conditions.
- Do not apply over structural or movement joints.
- Do not exceed a thickness greater than 2mm on application.
- Not suitable for metal surfaces with highly polished mirror like finishes.

Safety instructions

Alcolin Permocrete 1K Primer is non-toxic, however, the cement component is alkali in nature, and it is therefore advisable to wear rubber gloves in order to avoid direct skin contact. In the event of skin or eye contact, rinse thoroughly and immediately with water. Seek medical assistance if irritation or discomfort persists. Keep out of reach of children! Refer to our Safety Data Sheets for further toxicological information and comprehensive handling instructions.

Surface preparation

- Site conditions should comply with the latest SABS Standards editions: SABS 021 (Code of Practice for the Waterproofing of Buildings including damp-proofing and vapour barrier installation), SANS 10109-2:2004 (Concrete Floors Part 2: Finishes to concrete floors).
- Surfaces must be firm and free of dust, mould, oil, grease, wax polish and organic growth.
- **Metal surfaces (rebar)** must be completely free of any rust and contaminants prior to the application of Alcolin Permocrete 1K Primer. Sandblasting is recommended in order to achieve a bare metal surface.
- **Note:** Apply Alcolin Permocrete 1K Primer immediately after sandblasting in order to achieve the best corrosion protection. Do not leave the newly exposed metal for too long a period without protection in order to prevent the reformation of rust which can act as a bond breaker and will initiate further corrosion).

Directions for use

1. Use a mechanical mixer such as a slow electric drill fitted with a suitable paddle.
2. Add 6L water to the bucket and with continuous stirring, slowly add the powder content of the 20kg bag to the bucket.
3. Mix thoroughly until a paint type consistency is achieved.
4. Allow to stand for approximately 5 minutes.
5. This is a fully compounded product. Do not add any other ingredients such as sand or cement etc.
6. Remix immediately before use.
7. If the mix is a little stiff, a small amount of water can be added to adjust the working properties.
8. Use a clean paint brush to apply approximately a 1-2mm thick layer, ensuring full coverage of the metal rebar/substrate is always achieved.
9. For best protection apply a second coat after a drying time of at least 2 hours (20°C).
10. Before completing the repairs with a product such as Alcolin Permocrete Structural Repair Mortar, the final primer coat must be allowed to dry for at least 6 hours, preferably 24 hours (20°C) prior to the application of the mortar. In colder weather, allow for at least 24 hours.

Cleaning

Tools can be cleaned with water and soap when adhesive is still wet. Allow any unused product to dry before discarding in a suitable container.

Storage stability

Alcolin Permocrete 1K Primer must be kept in normal, dry conditions and protected from damp. The product has a shelf life of approximately 9 months if stored, as described above, in its original sealed packaging.

Product packaging

20kg bag

Product data

I. Physical data

Type	Cement mixture
Appearance	Fine red powder
PH	~11
Solids	100%

II. Application data

Pot life	± 1 hour at 25°C and 50% humidity
Initial set	~2 hours at 25°C and 50% humidity
Final set	~8 hours at 25°C and 50% humidity
Coverage/20kg Bag	Approximately 22m ² at 2mm thickness
Water Resistance	Conforms to EN 14891 2017 no water penetration at 1.5 bar for 7 days
Corrosion Resistance	Salt Spray Testing ASTM B117 1512 hrs
Weathering Resistance	Cyclic Weather Testing: ASTM D5894 Cyclic Weathering 1344 hrs
Adhesion	Tensile adhesion strength of the product complies with the minimum requirements of EN14891: 2017, which is ≥ 0.5 N/mm ²

The above information is only offered, as a guide to the use of this product. Furthermore, users should satisfy themselves that it is suitable for their needs. Since we have no control over the conditions under which it is used, we cannot accept responsibility for problems caused by the use and/or application of this product.

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