

TECHNICAL DATA SHEET

Concrete Repair



Krystol Bari-Cote™

Product Code: K-315

DESCRIPTION

Krystol Bari-Cote is a high-strength crystalline concrete waterproofing top coat used to resurface and repair concrete or masonry.

Krystol Bari-Cote is commonly used as a waterproofing parge coat for spalled or honeycombed concrete, or as a waterproof plaster on masonry walls, where a higher compressive strength surface is required.

Krystol Bari-Cote contains Krystol technology. When applied to concrete, Krystol chemically reacts with water and un-hydrated cement particles to form needle-shaped crystals that fill capillary pores and micro-cracks in the concrete and permanently block the pathways for water and waterborne contaminants. Any moisture introduced over the lifespan of the concrete will initiate crystallization, ensuring permanent waterproofing protection.



FEATURES & BENEFITS

- Superior bonding
- High compressive strength
- Permanent waterproofing repair
- Safe for contact with potable water
- Can be painted after curing
- Fast and easy to use
- Increased durability; reduces further maintenance and lowers repair costs
- Contains Krystol technology

RECOMMENDED USES

Use as a parge coat for spalled or honeycombed concrete, or as a waterproof plaster on masonry walls.

PROPERTIES

| Physical Properties | |
|--------------------------------------|--|
| Appearance | Gray powder |
| Bulk density | 1.35 g/cm ³ (84lb. /cu. ft.) |
| pH (when mixed with water) | 12 |
| Plastic Properties | |
| Working time (20°C/ 68°F, 50 % RH) | 30 minutes |
| Hardening time (20°C/ 68°F, 50 % RH) | 1 hour 30 minutes |
| Hardened Properties | |
| Hydrostatic head resistance | 140 m (460 ft.) |
| Compressive strength (ASTM C109) | 29 MPa (4206 psi) @ 24 hours 35 MPa (5076 psi) @ 7 days 45 MPa (6527 psi) @ 28 days 54 MPa (7832 psi) @ 56 days |

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APPLICATION

Refer to Application Instructions 5.21 - Patching and Parging Defective Concrete and Masonry before using this product.

For patching, Krystol Bari-Cote is mixed to a suitable putty consistency, approximately 4 parts powder to 1 part clean water by volume, and applied to the prepared surface using a trowel.

For parge coats, Krystol Bari-Cote is mixed 6.5 parts powder to 2 parts clean water by volume and applied to the prepared surface using a trowel.

For deep patches or overlay applications thicker than 13 mm (0.5 in.), Krystol Bari-Cote is mixed with clean 10 mm (0.375 in.) pea gravel at a mix ratio of approximately 4 parts powder to 1.5 parts gravel to 1 part clean water by volume.

LIMITATIONS

Krystol Bari-Cote is effective for rigid structures only and is not intended for structures that experience variable loading or repeated movement. Consult a Kryton representative for project specific recommendations.

SAFETY

Read and follow the Safety Data Sheets (SDS) for these products. For professional use only. These products become highly caustic when mixed with water or perspiration. Avoid contact with skin or eyes. Avoid breathing dust. Wear long sleeves, safety goggles and impervious gloves.

PACKAGING

Krystol Bari-Cote is available in 5 kg (11 lb.) and 25 kg (55 lb.) resealable pails.

SHELF LIFE

When stored in a dry enclosed area, Krystol Bari-Cote has a shelf life of at least 3 years for unopened pails.

WARRANTY

Kryton International Inc. (Kryton) warrants that Kryton products are free from manufacturing defects and comply with the specifications given in their respective technical data sheet. Because conditions of use, such as site conditions, surface preparations, workmanship, concrete ingredients, weather, structural issues and other factors are beyond the control of Kryton, no warranty can be given as to the results of use. Purchaser agrees to seek the advice of qualified professionals and to determine for themselves the suitability of the products for their intended purpose and assumes all risks. Purchaser's sole remedy is limited to replacement of any product proven defective or at Kryton's option refund of the purchase price paid. THIS LIMITED WARRANTY CONTAINS THE ENTIRE OBLIGATION OF KRYTON. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. KRYTON SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. No representative of Kryton has the authority to make any representations or provision except as stated herein. Kryton reserves the right to change the properties of its products without notice.