



# Krystol Bari-Cote™

(Water Barrier for Concrete or Brick)

Product Code: K-315

## DESCRIPTION

**Krystol Bari-Cote™** is a high-strength waterproof grout that is specially designed to repair leaking cracks, holes and joints. Krystol Bari-Cote contains special ingredients that react chemically with concrete to form millions of needle-like hydration crystals. These crystals grow deep into the capillary pores of the grout and surrounding concrete to block the passage of water.

## FEATURES

- Waterproof - contains Krystol® Technology waterproofing compounds
- Contains no corrosive chemicals or metals
- High early strength
- Superior bonding ability
- Very high compressive and flexural strength
- Withstands hydrostatic pressure
- Safe for contact with potable water
- Can be painted after curing

## RECOMMENDED USES

- Use Krystol Bari-cote to repair leaking cracks, joints and holes in concrete as per Application Instruction 301 and 117.
- Fill form-tie holes in concrete walls Application Instruction 302
- Repair spalled or honeycombed concrete
- Use as a waterproof plaster on masonry walls

## APPLICATION

Concrete or brick surfaces must be sound and free of all contaminants. Surfaces to be treated must be pre-soaked with clean water to achieve a saturated/surface-dry (SSD) condition. Do not leave any standing water. Mix Krystol Bari-Cote to a suitable putty consistency - approximately 4 parts powder to 1 part clean water by volume. Do not mix more than can be applied within 15 minutes. Apply using a trowel to the prepared surface.

For deep patches or overlay applications thicker than 13mm (1/2 inch) mix Krystol Bari-Cote with clean 10mm minus pea gravel (3/8ths) - approximately 4 parts powder to 1.5 parts gravel to 1 part clean water by volume.

## PACKAGING

Krystol Bari-Cote is packaged in re-sealable plastic buckets in the following standard sizes;

- 5kg (11 lbs.) pails
- 25kg (55 lbs.) pails

## COVERAGE

- Approx. 500 cm<sup>3</sup> per kg (approx. 14 cubic inches per pound) when used as a grout.
- As a component of the crack repair system (see Application Instruction 301), a 25kg (55lb) pail will complete approx. 30m (100 ft.) of crack.
- As a parge coat, one 25kg (55lb) pail will cover approx. 3.5 square meters (38 square feet) at 3mm thickness (1/8th inch).

## PHYSICAL PROPERTIES

|                                    |  |
|------------------------------------|--|
| <b>Appearance</b>                  | Powder   |
| <b>Color</b>                       | Gray   |
| <b>Bulk density (g/cc)</b>         | 1.35   |
| <b>PH (when mixed with water)</b>  | 13   |
| <b>Working Time (20 °C)</b>        | 15 minutes   |
| <b>Harden Time (20 °C)</b>         | 60 minutes   |
| <b>Hydrostatic head resistance</b> | 140 m (460 ft.)  |
| <b>Compressive Strength</b>        | (ASTM C-109)<br>2 hours: 8 MPa (1000 psi)<br>24 hours: 24 MPa (3000 psi)<br>28 days: 50 MPa (6500 psi) |

## CURING

Krystol Bari-cote develops significant heat during the hardening process and is prone to rapid drying. Protect the application from rapid drying by repeatedly misting with water for at least 48 hours. Protect against freezing temperatures for at least 24 hours.

## SHELF LIFE

Krystol Bari-cote has a minimum shelf life of 24 months for sealed pails, and 4 months for open and properly re-sealed pails.

## SAFETY

- Before using or handling, read the Material Safety Data Sheet for this product.
- Krystol Bari-Cote powder becomes caustic when mixed with water or perspiration. Take appropriate safety precautions to prevent contact with skin or eyes and to prevent breathing dust.



# Technical Data Sheet

**Technical Data Sheet 702**