

# TECHNICAL DATA SHEET

## Construction Joints & Details



# Krystol Waterstop Grout™

## DESCRIPTION

Krystol Waterstop Grout is a primary component of the Krystol Waterstop System and is used to permanently waterproof concrete construction joints, pipe penetrations, tie holes and control joints. Krystol Waterstop Grout is specially formulated with Kryton's proven Krystol technology and contains fiber and shrinkage controlling additives that limit cracking. The active Krystol ingredients in Krystol Waterstop Grout combine chemically with unhydrated cement and moisture to form millions of needle shaped crystals that grow in all directions to fill any capillary pores, cracks and joints that might otherwise allow water to pass.

## FEATURES & BENEFITS

- High early strength
- Superior bonding ability
- Very high compressive strength
- Withstands hydrostatic pressure
- Contains no corrosive chemicals or metals
- Safe to contact with potable water
- Can be painted after curing
- Fast and easy to use
- Waterproofs permanently
- Increased durability decreases maintenance and repair costs
- Superior performance enhances your reputation for high quality work
- Contains Krystol® Technology

## RECOMMENDED USES

- Construction joints
- Tie-rod holes and pipe penetrations
- Repair leaking cracks
- Repair spalled or honeycombed concrete.

## PROPERTIES

Physical Properties	
Appearance	Grey powder
Bulk density g/cm <sup>3</sup> (lb./cu.ft.)	~1.40
pH (when mixed with water)	~12
Plastic Properties	
Working time (20°C, 50% RH)	30 minutes
Hardening time (20°C, 50% RH)	1 hour

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Hardened Properties	
Hydrostatic head pressure resistance	160 m (524 ft.)
Compressive Strength (ASTM C109)	30 MPa (4351 psi) @ 24 hrs 40 MPa (5801 psi) @ 7 days 50 MPa (7251 psi) @ 28 days 55 MPa (7977 psi) @ 56 days
Pull off Strength (ASTM C1583)	400 psi

## APPLICATION

1. Mix Krytol Waterstop Grout to a suitable putty consistency (approximately 4 parts powder to 1 part clean water by volume) and apply to the prepared surface using a trowel. Do not mix more than can be applied within 30 minutes.
2. For Construction Joints treatment mix to suitable putty consistency (4.5 parts powder to 1 part clean water by volume) and apply in a groove of 25mm x 25mm

For details on application methodology, please consult a Kryton representative for project specific recommendations.

## SAFETY

For professional use only. This product becomes 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

Krytol Waterstop Grout is available in 25 kg resealable pails.

## SHELF LIFE

When stored in a dry enclosed area, Krytol Waterstop Grout has a shelf life of 3 years for unopened pails.

## WARRANTY

Kryton Buildmat Co. Pvt. Ltd. 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.