



Krystol Waterstop Grout™ - Internal

(Waterproofing System for Horizontal Construction Joints)

Product Code: K-322i

DESCRIPTION

Krystol Waterstop Grout is a primary component of the Krystol® Waterstop System and is used to permanently waterproof concrete construction joints. In addition to Kryton's proven Krystol technology, Krystol Waterstop Grout contains fiber reinforcements which improve crack resistance and durability. These active ingredients combine chemically with water and concrete 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. Krystol Waterstop Grout is used in conjunction with Krystol Waterstop Treatment™ to form the complete system.

FEATURES

- Withstands extreme hydrostatic pressure
- High-strength and durable making jobsite damage unlikely
- Safe for contact with potable water, certified by NSF to NSF/ANSI Standard 61 Drinking Water System Components – Health Effects
- Easy to install and distinctive colour makes it easy to inspect

KEY BENEFITS

- Provides a permanent waterstop treatment as part of the Krystol Waterstop System
- Increases reliability and quality control
- Eliminates risk of waterstop shifting during concrete pour
- Flexible scheduling – resistant to rain and foot traffic once hardened. Concrete can be placed days or weeks later.

RECOMMENDED USES

Use in conjunction with Krystol Waterstop Treatment as part of the Krystol Waterstop System at below grade horizontal concrete-to-concrete joints where there is any concern regarding water penetration.

PHYSICAL PROPERTIES

Appearance	Red powder
Bulk density g/cm ³ (lb./ cu. ft.)	1.5 (94)
pH (when mixed with water)	12

PLASTIC PROPERTIES

Working time (20°C, 50% RH)	30 minutes
Hardening time (20°C, 50% RH)	3 hours



HARDENED PROPERTIES

Hydrostatic head resistance	140 m (460 ft.)
Compressive strength (ASTM C109)	43.4 MPa @ 7 days
	46.2 MPa @ 28 days

APPLICATION

Read and distribute Application Instruction 4.11 — Waterproofing Horizontal Construction Joints (Internal Method) before using this product. Consult a Kryton Representative for help with selecting the appropriate joint detail. Mix Krystol Waterstop Grout to a stiff putty consistency to obtain a sag-free paste (approximately 4 parts of powder to 1 part clean water by volume). Apply the Grout to the center of the joint area in a triangular strip. Place the Grout with the 2 in. margin trowel then use the Kryton triangle shaper or similar tool to form a continuous strip of peaked material. Protect the Grout application from damage by rain, rapid drying or freezing for at least 24 hours. Mix Krystol Waterstop Treatment to a thick slurry consistency (approximately 3 parts powder to 1 part clean water by volume), and apply any time after the Grout has hardened. Concrete may be poured over the joint any time after the Treatment has hardened.

LIMITATIONS

Krystol Waterstop Grout is effective for rigid structures only and may not reliably seal joints that experience variable loading or repeated movement. Consult a Kryton representative for project specific recommendations.

SAFETY

Read the Material Safety Data Sheet (MSDS) for this product. 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

- 5 kg (11 lb.) resealable pails
- 25 kg (55 lb.) resealable pails

SHELF LIFE

Krystol Waterstop Grout has a minimum shelf life of 24 months for unopened pails, and 4 months for properly resealed pails.

WARRANTY

Kryton International Inc. warrants that its products are free from manufacturer's defects and, when applied in accordance with the current specification and application instructions will perform as so stated in its product literature. Because methods and conditions of use are beyond the control of Kryton, no guarantee, expressed or implied can be given as to the results of application. Liability of Kryton shall be limited to replacement of materials proved defective or, at its option, refund of the purchase price of the product.