



Krystol Waterstop Grout™ - Internal

(Construction Joint Waterproofing System)

Product Code: K-322i

DESCRIPTION

Krystol Waterstop Grout™ is a specially formulated powder containing the proven chemistry of Krystol™ integral crystalline waterproofing. Krystol Waterstop Grout is a primary component of the Krystol Waterstop System™ and is used to create concrete construction joints that are permanently waterproof. In order to produce a crack-resisting and durable grout, the internal red powder contains polypropylene (PP) fiber. The active ingredients in Krystol Waterstop Grout 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.

FEATURES

- Provides a permanent waterstop treatment as part of the Krystol® Waterstop System
- Contains proven Krystol waterproofing technology
- Withstands extreme hydrostatic pressure
- Contains no corrosive chemicals
- Durable - not prone to jobsite damage
- Very high strength
- Safe for contact with potable water
- Easy to install
- Distinctive color makes it easy to inspect

RECOMMENDED USES

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

APPLICATION

The following is a brief description of how to use Krystol Waterstop Grout (Internal) using the triangle method – For detailed application instructions, see Application Instruction 201.

Concrete surfaces must free of all contaminants and be pre-soaked with clean water to achieve a saturated/surface-dry (SSD) condition. Do not leave any standing water. Mix Krystol Waterstop Grout to a stiff putty consistency- approximately 4 parts of powder to 1 part clean water by volume to obtain a sag free paste. Apply the Grout to the center of the joint area in a triangular strip. Place the Grout with the 2" margin trowel then use the Kryton triangle shaper or similar tool to form a continuous strip of peaked material. Mix Krystol Waterstop Treatment to a thick slurry consistency (5 parts powder to 2 parts clean water by volume), and apply anytime after the Grout has hardened.

For applications where the internal triangle method can not be used, use external wedge method (TDS K-322i) and follow the instructions detailed in Application Instruction 202.

PACKAGING

Krystol Waterstop Grout is packaged in re-sealable plastic buckets in the following standard sizes:

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

COVERAGE

Internal (Triangle) method requires one 25kg (55 lb.) pail of Krystol Waterstop Grout for every 15 meters of joint (50 lineal feet / pail)

PHYSICAL PROPERTIES

Appearance	Powder	
Color	Red	
Bulk density (g/cc)	1.5	
PH (when mixed with water)	12	
Working time (20°C, 50%RH)	30 Minutes	
Hardening time (20°C, 50%RH)	3 hours	
Hydrostatic head resistance	140 m (460 ft.)	
Compressive strength development (ASTM C-109)	7 days:	43.4 Mpa
	28 days:	46.2 Mpa



CURING

Protect the Grout application from damage by rain, rapid drying or freezing for at least 24 hours or until it is covered by Krystol Waterstop Treatment.

SHELF LIFE

Krystol Waterstop Grout 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 Waterstop Grout 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.