



Krystol Waterstop Grout™ - External

(Construction Joint Waterproofing System)

Product Code: K-322x

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. 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

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 (External) using the wedge method – For detailed application instructions, see Application Instruction 202.

Concrete surfaces must free of all contaminants and be pre-soaked with clean water to achieve a saturated/surface-dry (SSD) condition. Mix Krystol Waterstop Treatment to a thick slurry consistency (5 parts powder to 2 parts clean water by volume), and apply treatment at construction joints prior to pouring next subsequent concrete. Build keyways to intersect joints by attaching a tapered block out material to the forming materials. Pre-soaked the keyways to SSD condition after removing the forms. Mix Krystol Waterstop Grout to a dry putty consistency- approximately 4 parts of powder to 1 part clean water by volume and pack the keyway.

For applications where the external wedge method can not be used, use internal triangle method (TDS K-322i) and follow the instructions detailed in Application Instruction 201.

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	Gray	
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 24 hours or until concrete is poured over it.

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.