



Hydrostop™ Coating

Product Code: K-720 (Gray) or K-725 (White)

DESCRIPTION

Hydrostop™ Coating is a 2-part polymerized cementitious topping mortar applied as a slurry to the concrete or mortar surface and will provide a strong and durable barrier against water intrusion. Hydrostop Coating is used in conjunction with Hydrostop Grout and Hydrostop Sealer as part of the Hydrostop Restore & Protect System. The system is intended for above-grade concrete or mortar surfaces (i.e., concrete exposed to minimal hydrostatic pressure) and has been designed to extend the lifespan of aging infrastructure and buildings.

FEATURES

- Extends the lifespan of aging concrete infrastructure and buildings as part of the Hydrostop Restore & Protect System
- Improves aesthetics by providing more even color and smoothness to the concrete surface
- Provides superior aging quality when exposed to UV radiation versus liquid coatings
- Resists thermal cycling and provides a resilient surface
- Protects reinforcing steel against corrosion
- Waterproofs minor cracking
- Provides excellent resistance to waterborne chemicals such as sulfates, chlorides, and acids
- Choice of gray or white colour
- Can be painted after curing
- Can be applied to damp concrete
- Can be tinted using coloured pigments for concrete

KEY BENEFITS

- Reduces the cost of maintenance and repairs
- Avoids costs of building replacement and prevents disruption to facility and building operations
- Increase your environmental sustainability
- Decreases the application costs (easy-to-use system)
- Increases environmental sustainability by extending the lifespan

TYPICAL APPLICATIONS

- Extend the lifespan of aging concrete infrastructure such as hydroelectric facilities and transportation structures
- Restore and protect aging concrete buildings such as churches, mosques, and any other concrete or mortar rendered finish

PHYSICAL PROPERTIES

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|---|---|
| Appearance: | Part A: Light gray powder or white powder Part B: Milky white liquid |
| Specific gravity: | Part A: 1.27 g/cc Part B: 1.05 g/cc |
| pH: | Part B: 9.5 Part A+B mixed: 10 |
| Working time (field conditions: 23°C, 50% RH): | 15-20 minutes |
| Initial setting time (field conditions: 23°C, 50% RH): | 4 hours |
| Hardening time (field moist curing conditions): | 18-24 hours |

APPLICATION

Read Application Instruction 450 before proceeding.

Fix any defects in the substrate, such as honeycombing, cracks, or holes using Hydrostop Grout. Hydrostop Coating comes supplied as a pre-measured kit. Pour the entire contents of part A (powder) into a mixing bucket containing part B (liquid) and mix using an electric drill and paddle. Mix thoroughly for several minutes to produce a thick slurry. Ensure the concrete is in SSD condition and apply the Hydrostop Coating to the concrete using a stiff bristle concrete brush or by spreading with a push broom. Do not apply thicker than 3 mm (1/8th) inch. Follow with one coat of Hydrostop Sealer, for added value and performance. If painting with a water-based paint, do not apply the sealer.

CURING

Prevent the application from drying out by misting with water for at least one day.

COVERAGE

The coverage is approximately 1-2 kg/m² (1.8-3.7 lbs/sq.yd) or about 16.5 m² (180 sq.ft.) of concrete surface per kit.

SAFETY

Part A is a dry powder that 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. See the Material Safety Data Sheet for these products.

PACKAGING

Part A: 12.7 kg (28 lbs) pails
Part B: 3.8 L (1 gal) jugs
Total kit size: 16.5 kg (36 lbs)



STORAGE

Store materials in a dry storage area to avoid contact with moisture. Do not store liquids at temperatures below 4 °C (39 °F).

SHELF LIFE

Part A (powder) has a minimum shelf life of 24 months for sealed pails, and 4 months for open and properly re-sealed pails and jugs.

Part B (liquid) has a minimum shelf of 6 months for open and properly re-sealed jugs.

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.

TEST DATA

COMPRESSIVE STRENGTH

ASTM C109 – Standard Test Method for Compressive Strength of Hydraulic Cement Mortars

Specimens of the Hydrostop Coating cast at 4:1 mixing ratio (moist cured for 24 hours and allowed to dry for 6 days) displayed a compressive strength of 11 MPa (1,600 PSI).

PULL OFF ADHESION STRENGTH

ASTM D7234 – Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers

Specimens coated with Hydrostop Coating @ 1.5 kg/m² (moist cured for 24 hours and allowed to dry for 6 days) displayed pull off adhesion strength of 7.5 MPa (1,100 PSI).

WATER ABSORPTION REDUCTION

ASTM C1403 – 06 Standard Test Method for Rate of Water Absorption of Masonry Mortars

Specimens were coated with Hydrostop Coating @ 1.5 kg/m² (moist cured for 24 hours and allowed to dry for 6 days) then coated with Hydrostop Sealer @ 7.4 m²/L (left to dry for – hours). Specimens were weighed and showed a reduction in absorption versus the control samples of 75% after 24 hours.