TK® PRODUCTS
CONCRETE TREATMENTS & COATINGS

Division of Sierra Corporation
ISO 9001:2008 CERTIFIED

VOC Regulatory Compliance: ☑ AIM ☑ OTC ☑ LADCO ☑ CARB ☐ SCAQMD ☑ CANADA

TK-HYDROMAX® 2003

Foundation Waterproof Coating (Commercial)

Division 7: Section 071416 - Cold Fluid Applied Waterproofing

Item No. TK-2003

PRODUCT DESCRIPTION

TK-HYDROMAX® 2003 is a non-breathable, single component, fluid applied foundation coating. This water based, rubberized polymer formulation is used to waterproof below-grade concrete surfaces.

USES:

Suitable for exterior use on below-grade foundation walls, CMU, precast and poured concrete.

APPLICATION PROCEDURES:

PREPARATION:

A clean, dry and frost free surface is required. Any dirt, oils, grease, debris, concrete laitance or other contaminants must be removed. Surfaces should be smooth and free of any voids, spalled areas, loose substrate, protusions or coarse aggregate. To remove dirt, dust or loose stones, the substrate must be wire-brushed, swept with a stiff broom or blown with high pressure air. Surfaces of poor quality or with excessive laitance may require shotblasting or pressure washing to rid it of contaminants and to provide a dense, smooth surface. Defects such as spalled concrete or poorly joined areas must be repaired. Any and all previous coatings must be removed prior to application of this product. All masonry joints must be tooled and brushed. The assembly wall is to be unparged.

When applying to CMU substrates, make sure all mortar joints are tooled both inside and outside to form a continuous mortar joint.

When applying to poured concrete, remove all form ties inside and out, while pre-treating all tie holes with TK-Super Seal, or pre-approved caulk prior to the waterproofing application.

New/"Green" Concrete and Damp Surface preparation

New concrete should be allowed to cure until the surface appears dry. For proper adhesion, any concrete walls or concrete blocks that have been placed late in the year should be allowed to gain sufficient strength prior to application. TK-HYDROMAX® 2003 may be applied to "green" concrete, however any visible, running or standing water should be removed prior to application. Control joints should be sprayed using TK-HYDROMAX® 2003. Once cured, apply TK-CLIMATE FLASH™ sheet membrane, or an approved equal, and extend 6" on both sides of joint. Caulk edges with TK-SUPER SEAL™.

Existing Concrete preparation

Tie-holes, bug holes and surface abnormalities exceeding 1/2" in diameter or 1/8" deep (or both) shall be pretreated using either a small amount of TK-HYDROMAX® 2003 back rolled, or a lean concrete mix of grout. Surfaces that are cracked, pitted, honeycombed or heavily bugholed may be filled by spraying with TK-HYDROMAX® 2003 and back rolled to ensure the product is pushed to all edges of the voids. Immediately apply a full coat of TK-HYDROMAX® 2003 at specified amounts. Utilizing this method, however will consume a higher amount of material, therefore it may be more efficient to fill surface deficiencies with a parge coat of TK-PLASTER MIX with TK-LIQUID BONDING AGENT 225* prior to application of this product. Gaps may also be filled with a compatible sealant or caulk. Remove windows, protusions and form match lines. High spots greater than 1/32" in height should also be removed.

TECHNICAL DATA

Composition and Materials:	A rubberized latex copolymer formulation
% Solids by Weight:	45 +/- 1%
Flash Point:	No flash - aqueous system
Drying Time: Tack Free Recoat Full Cure	1-4 hours 8-24 hours 24-72 hours
VOC Content:	< 100 g/l
A.I.M. Category:	Waterproofing Sealers and Treatments Maximum VOC 600 g/l

TESTING DATA

APPLICABLE STANDARDS	**TK-HYDROMAX® 2003 PERFORMANCE**
ASTM E96: Permeability	0.1 Perms
ASTM C1305: Crack Bridging	Pass, No cracking or loss of adhesion
ASTM D412: Tensile Strength and Elongation	215 PSI 241%
ASTM D3359-93: Adhesion	5A No peeling or removal

RESISTANCE CHART

Abrasion	Good
Acid	Good
Alkali	Excellent

DETAILING:

Inside and Outside Corner Detailing - Apply a double coat of TK-HYDROMAX® 2003 membrane beginning in the corner and extending 6" out for each side of the corner. Inside corners should be sprayed, allowed to cure and then applied with 6" of TK-CLIMATE FLASH™ and edges caulked with TK-SUPER SEAL PE™.

Drain and Penetration Detailing - Once the waterproofing membrane has cured, any penetration openings must be sealed and stabilized. Install a 1" fillet of TK-SUPER SEAL PE™ caulk, or pre-approved caulk around the penetration. Install TK-CLIMATE FLASH™ sheet membrane or pre-approved equal at least 3" overtop of the penetration.

Back Fill and Drain Tile - Install an interior and exterior fabric socked drain tile with proper hook up and daylight. Back fill with clean pea stone for proper drainage.

MIXING:
The material is ready for use and requires no mixing unless signs of separation are evident. It is unlawful to further reduce with non-exempt solvents.

APPLICATION:
TK-HYDROMAX® 2003 should be applied directly to concrete by spray. A typical sprayer is a Graco 733/833 45:1 airless with a 0.035 - 0.039 tip. Brush and/or roller will work for application to smaller areas or for touch ups.

Application of Drainage, Protection or Insulation - Protect TK-HYDROMAX® 2003 from other traffic, construction materials or backfill to avoid damaging it. Once the membrane has properly cured, use a protection/drainage composite with filter fabric. Extruded polystyrene insulation boards are compatible with TK-HYDROMAX® 2003, however the product should be allowed to properly cure before using these boards.

CLEAN UP:
Use water to clean tools and equipment.

COVERAGE:
The coverage rate is inversely affected by the texture and porosity of the substrate. One coat is sufficiently applied at 30-32 square feet per gallon (50 wet mils). Apply in a cross hatch spray pattern. Inspect the surface and make certain that the coverage of the coating is continuous and uninterrupted. Any area that is thin may be recoated.
Coverage rates are provided as a guideline only. Many factors including surface texture, porosity and weather conditions will determine actual coverage rates.

MAINTENANCE:
Minimal maintenance is required. If weathering occurs, TK-HYDROMAX® 2003 may be reapplied to the affected area.

LIMITATIONS:
- The coating must be applied at substrate temperatures between 40°F to 100°F.
- A 40°F temp or above must be maintained during cure.
- Apply directly to structural surfaces.
- Do not apply to foundation walls that exceed 20 feet in depth without prior approval from TK Products.

FIRST AID:
- Consult this product's safety data sheet for additional health and safety information. Safety Data Sheets are available through TK distributors, the TK office and the TK website.

AVAILABILITY:
TK-HYDROMAX® 2003 is available through TK Distributors. Contact TK Products for the nearest distributor.

Available in Dawn Mist and Stone Gray.

Available in residential and commercial formulations.

Packaged in 275-gallon totes, 55-gallon drums and 5-gallon pails.

FOR PROFESSIONAL USE ONLY

NOTES:
TK-PLASTER MIX CONCRETE SURFACER and TK-LIQUID BONDING AGENT 225 must be purchased separately
TK-SUPER SEAL PE™ must be purchased separately
TK-CLIMATE FLASH™ must be purchased separately

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