

PRODUCT DATA SHEET

REVISED FEBRUARY, 2024

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Disclaimer: It is the user's responsibility to review and determine the suitability of this information and product for their intended purpose. The manufacturer is not responsible for the misuse of this product. This Product Data Sheet and the information conveyed herein supersede all previous versions.

TEK MAX™ MOISTURE BARRIER & PRIMER

Specially formulated for use with Teknoflor adhesives. TEK MAX™ is a one-component, polyurethane moisture barrier and primer ready for immediate use for permanently blocking capillary moisture, solidifying soft substrate surfaces, and as a primer for porous and non-porous substrates.

SUITABLE CONCRETE SUBSTRATES

All concrete surfaces must be structurally sound, fully cured, clean, flat, smooth, dry, and free of: dust, dirt, wax, grease, oil, marker, paint, and any other deleterious contaminants that may stain the flooring or interfere with a good bond (ASTM F710). Check for and remove all surface contaminants including curing and parting compounds, surface hardeners, and sealers which may interfere with primer bond to concrete; as well as loosely bonded toppings, primers, and any other deleterious substances that may prevent or reduce adhesion.

When TEK MAX™ is used as a moisture barrier, the concrete surface must be mechanically prepared using the appropriate tools and equipment to achieve an absorbent state per ASTM F3191. To perform at its specified level as a moisture barrier, TEK MAX™ must be able to penetrate the capillary structure of the concrete. Surface preparation is critical for new and existing concrete, particularly those which have been power troweled or burnished. Thoroughly abrade the surface to achieve a CSP 1 surface profile that is absorbent, porous, and free of contamination. The prepared concrete surface must be a uniform grey color.

TEK MAX™ is not for use:

- Over substrates with hydrostatic pressure.
- Over substrates with visible surface moisture.
- With Teknoflor CS
- With Teknoflor Naturescapes

CONCRETE MOISTURE BARRIER

Use TEK MAX™ over properly prepared concrete surfaces when moisture testing exceeds adhesive limits.

TEK MAX™: Use ASTM F2170 to determine RH and ASTM F1869 to determine MVER (Moisture Vapor Emissions Rate).

One Coat: 90.0% RH and/or 12 lbs. MVER

Two Coats: 99.0% RH and/or 18 lbs. MVER

SURFACE PRIMER

Wood/Gypsum/Concrete substrates – Use a single coat of TEK MAX™ to prime Gypsum, standard concrete, lightweight concrete, and APA plywood, particle board, and or other suitable substrates which are approved by their manufacturer for the specified use conditions and suitable for fully bonded resilient flooring installations.

Terrazzo and ceramic tiles – Existing terrazzo and ceramic tiles must be fully adhered to the substrate. Remove all finishes and maintenance product residue and other materials or contaminants that may inhibit adhesion. Thoroughly abrade the surface to ensure a strong mechanical bond.

APPLICATION AND COVERAGE

Before the installation can begin, the permanent HVAC system should be in full operation for as long as necessary for the project area to reach occupancy-conditions but shall not be less than one week. Room temperature should be maintained between 65°F to 85°F (18°C to 29°C) at least 48 hours before and during installation. Ambient humidity should be maintained between 35% to 65% RH. If the substrate is within 5°F of dew point the installation should not proceed until addressed.

Shake TEK MAX™ well before use. Pour TEK MAX™ into a paint tray and apply each coat by using a ¼ inch nap roller. Apply with broad strokes to a thin even continuous coat without puddling or dry spots.

When applying two coats it is recommended to apply the second coat perpendicular to the first. When the coating has dried, any bumps in the coating from debris shall be removed with a 120-grit screen. Failure to remove any excess texture may result in the texture being visible in the finish flooring.

The coverage will depend on the porosity and smoothness of the substrate and the number of coats applied.

One Coat: Up to 400 sf per gallon (Up to 1,000 sf per unit)

Two Coats: Up to 200 sf per gallon (Up to 500 sf per unit)

AFTER APPLICATION

Each coat of TEK MAX™ is typically dry to touch 45-60 minutes after application. Always wait 12 hours after the application of the second coat to begin the installation and finish within 72 hours. When surface smoothing is necessary, apply a non-porous primer then apply the smoothing compound. Use a high quality suitable 3,500 psi portland cement or calcium aluminate preparation material in accordance with the manufacturers' instructions. Follow the current product instructions for preparation and installation over specific substrates. It is the responsibility of the installer/contractor to ensure the substrate is suitable and is properly prepared prior to installation. Install the flooring after all surface preparation has been completed.

The following adhesives are approved for direct glue-down over TEK MAX™:

- TEK ONE: Transitional Pressure Sensitive Adhesive (Dry-to-Touch)
- TEK FIVE: Modified Silane Flooring Adhesive

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PHYSICAL PROPERTIES

Base: Polyurethane Resin
Grade: Above-Grade
On-Grade
Below-Grade
Appearance: Blue or Amber color
Curing time: Approximately 45-60 minutes per coat
Shelf life: One year in unopened container at 70°F (21°C).
VOC Content: 0 g/l US regulatory
Clean up: Wet: Clean cloth with mineral spirits
Dry: Cannot be removed when cured
Freeze-Thaw: Not sensitive to cold but should be maintained above 40°F (5°C). Freeze-thaw stable. Must be warmed to room temperature before use.
ASTM E96-05: Water Vapor Transmission 0.138 g/m² x h @ approx. 8 mils (2 coats)
Permeance (perms) 0.47 @ approx. 8 mils (2 coats)
LEED: May contribute to LEED points under EQ 4.1
Container Size: 2.5 Gallons
Coverage: Coverage depends on surface porosity, smoothness, and the number of coats applied.
1 Coat: Up to 400 SF per Gal. (Up to 1,000 SF per unit)
2 Coats: Up to 200 SF per Gal. (Up to 500 SF per unit)
Weight: 25 Lbs.
Place of Manufacture: European Union
Other features: Waterproof when cured, VOC compliant, non-flammable. Made without anti-microbial agents as the moisture barrier/primer does not promote fungal growth.

CAUTION:

DO NOT take internally. If swallowed, DO NOT induce vomiting. Call a physician immediately. KEEP OUT OF REACH OF CHILDREN.

WARRANTY INFORMATION: This product is manufactured according to exacting quality control standards and is warranted to be free from manufacturing defects. Defective material called to our attention within one year of manufacture will be replaced. No guarantee, expressed or implied, is made regarding the performance of this product since the manner and conditions of application are beyond our control.

FIRST AID: If swallowed, do not induce vomiting. Immediately call for medical help. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If breathing is difficult, give oxygen. For eye contact, immediately remove contact lens and rinse with eyes wide open with plenty of water for several minutes. In case of skin contact, immediately wash skin with soap and plenty of water and rinse thoroughly. If possible, also wash with polyethylene glycol 400 and rinse thoroughly. Do not use solvents or thinners. Remove contaminated clothing or shoes. Seek medical help if irritation occurs. Wash clothing before reuse.

24 HR EMERGENCY CONTACT: CHEMTREC 800.424.9300 CONTACT ID: CCN794556

FIRE FIGHTING: In case of fire use alcohol resistant foam, dry chemical, carbon dioxide, or water spray. Use self-contained breathing apparatus and full protective clothing.