

# DATA SHEET FOR GROUNDWORX ULTRA ELEVATED MOISTURE EPOXY PRIMER

## PRODUCT DESCRIPTION AND USE

GroundWorx Ultra Elevated Moisture epoxy primer is a multi-purpose, two-component, water-reducible semi-gloss epoxy primer. This primer is designed primarily as a direct-to-concrete water vapor permeable epoxy primer for thin film breathable coating systems. GroundWorx Ultra elevated moisture epoxy primer is typically applied in one or two coats followed by a layer of GroundWorx Ultra ESD epoxy top coat. Installing over GroundWorx Ultra Urethane Concrete is recommended when there is a known risk of significant moisture vapor drive.

## TECHNICAL DATA

### Physical Properties

- Flash Point (ASTM D3278) .....  $\geq 199^{\circ}\text{F}$  ( $93^{\circ}\text{C}$ )
- Solids Content (ASTM D2369) ..... 42%
- Mixed Viscosity (D2196) ..... 2000-3600 cPs
- Volatile Organic Compounds .....  $< 0 \text{ g/l}$
- Dry Time @  $75^{\circ}\text{F}$  (ASTM D5895):
  - ◊ Dry to touch, tack free: 4 hours
  - ◊ Fully dry: 8-18 hours
  - ◊ Full Cure: 7 days

### Performance Properties

- Abrasion Resistance (ASTM D4060) ..... 120 mg
- Coefficient of Friction (ASTM D2047, James Test) ..... 0.55 – 0.65
- Water Vapor Permeability .....  $6.67 \times 10^{-7}$
- Adhesion to concrete (ASTM D4541) ..... 350 PSI concrete failure
- Impact (ASTM D2794) ..... 80 in/lbs, direct & reverse
- Hardness (ASTM D3363) ..... 2B
- Dry Film Thickness ..... 2.1 mils

\*Properties and results are based on laboratory testing at  $72^{\circ}\text{F}$  ( $22^{\circ}\text{C}$ ) and 50% RH, theoretical calculations, and estimates. Typical properties, as stated, are to be considered as representative of current production and should not be treated as specifications.

## GENERAL INFORMATION

### Storage

Materials should be stored in original un-opened containers indoors between  $65^{\circ}\text{F}$  ( $18^{\circ}\text{C}$ ) and  $90^{\circ}\text{F}$  ( $32^{\circ}\text{C}$ ) and at or below 50% RH.

### Shelf Life

1 year from date of manufacture (un-opened)

## **Disposal**

Dispose in accordance with federal, state, and local regulations.

## **Maintenance Guidelines**

Allow floor coating to cure for at least 7 days before cleaning by mechanical means (i.e. sweeper, scrubber, disc buffer). Increased life of the floor will be seen with proper maintenance and will help maintain a fresh appearance. Regularly sweep to avoid retention of dirt and grime which can quickly dull the finish, decreasing the life of the coating. Spills should be removed as quickly as possible as certain chemicals may stain and can permanently damage the finish. Only soft nylon brushes or white pads should be used on your new floor coating. Premature loss of gloss can be caused by hard abrasive bristle Polypropylene (Tynex®) brushes.

## **Damages & Repairs**

Heavy objects dragged across the surface will scratch any floor coating. Avoid gouging or scratching the surface. StaticWorx recommends protecting the floor with plywood, Masonite, or Ram boards whenever heavy equipment is being moved in or out of the space. Pointed items or heavy items dropped on the floor may cause chipping or concrete chip damage. Plasticizer migration from rubber tires can permanently stain the floor coating. If a rubber tire is planned to set on the floor for a long period of time, place a piece of acrylic sheet between the tire and the floor to prevent tire staining. Rubber burns from quick stops and starts from forklifts and lift trucks can heat the coating to its softening point, causing permanent damage and marking. Repair gouges, chips, and scratches as soon as possible to prevent moisture and chemical under cutting and permanent damage to the floor coating.

## **Usage**

Installation of all products purchased must be by professional coatings installers. Unapproved modification to any StaticWorx product voids the warranty. The installer shall maintain a written record of field conditions (including, without limitation, surface and atmospheric conditions, usage rates, and lot numbers of products installed). StaticWorx reserves the right to inspect any installed product, installation, and/or maintenance records and records of field conditions and may conduct additional testing as is reasonably required to investigate any warranty claims. Warranty shall only apply for products or materials that have been paid for in full.

Moisture Vapor Transmission (MVT) and ASR (Alkali Silica Reaction) Disclaimer and Exclusion: Although rare, some floors at or below grade level are sometimes subjected to saturation by moisture from beneath the concrete floor slab. This moisture can travel through the concrete and collect between floor coatings, creating the potential for delaminating from hydrostatic pressure and or ASR. Conditions contributing to this include heavy rainfall, broken pipes, excess hydration within fresh concrete, and other factors or defective and old concrete. These factors are difficult, if not impossible, to predict. StaticWorx recommends testing for moisture and/or the presence of ASR in the concrete substrate prior to applying any polymer floor topping as detailed above. ASR can be predicted by a higher than normal pH within the concrete. If high pH should be detected, it is recommended that an independent lab test for ASR. If and when delamination of the floor occurs because of a moisture condition that exists beneath or in the concrete slab beyond the capacity of the individual product installed, or if a failure occurs due to ASR, the StaticWorx limited warranty will not apply.