

OVERVIEW & FEATURES

Tread-Shield™ Primer WB is a multi-functional, water-based, VOC compliant, epoxy primer for concrete floors. This two-component epoxy product is designed for use as a primer for either urethane or epoxy finish coats. Tread-Shield Primer WB can be used as a safe, low odor, non-flammable primer in conjunction with urethane and epoxy concrete floor coatings. Most commonly, this product is coupled with 100% solids epoxy finish coats so the entire application is low odor and non-flammable.

In situations where acid conditioning or preparation chemicals are used, this product can be applied to concrete even before the conditioning products have dried. Because urethanes are often applied over acid conditioned floors, Tread-Shield Primer WB is recommended because it accepts surface moisture and can speed up the completion of the installation.

Water-Based Technology – Clean air requirements and the demand for low-odor, non-flammable products have made Tread-Shield Primer WB a standout among floor coatings. Tread-Shield Primer WB has been developed with up-to-date water-based technology. These advances impart excellent adhesion qualities and finish characteristics combined with environmentally safe properties.

VOC Compliant – Tread-Shield Primer WB has a VOC content of 1 lb./gal., making it VOC compliant. Many commonly used solvent-based primers will not meet VOC requirements in regulated areas.

Topcoat Options – Tread-Shield Primer WB can be used as a safe primer for urethanes, various epoxy finish coats and novolac formulations.

APPLICATION

Product Storage – Bring the product to normal room temperature before using. Continuous storage should be between 60°-90°F (16°-32°C).

Surface Preparation – The most suitable preparation would be a fine brush blast (shot blast) to remove all debris. All dirt, foreign contaminants and oil must be removed to assure a trouble-free bond to the substrate. A vapor emission test should be performed to test for vapor drive (<https://www.humboldtmg.com/vapor-emissiontestkit.html>). For moisture testing, at least one test shall be performed for each 1000 ft² of floor surface to be treated. Another testing method prior to installation to make sure concrete is dry, place a 4' x 4' (1.22 m x 1.22 m) plastic sheet on the substrate and taping down the edges. After 24 hours, if the substrate under the plastic is still dry, then the substrate is dry enough to start coating. The plastic sheet test is also a good way to determine if hydrostatic pressure problems exist that may later cause disbonding.

Product Mixing – This product comes prepackaged by weight. Kits should be mixed in their entirety. After the two parts are combined, mix with slow speed mixing equipment (such as a jiffy mixer) until the material is thoroughly mixed and streak-free. This product is an emulsion and must be mixed well before using.

Product Application – The mixed material can be applied by brush, roller or spray. Maintain temperatures between 55°-90°F (13°-32°C) and relative humidity below 75% during the application and curing process. When the material reaches the end of its pot life, it becomes hard and will tend to roll back onto the roller. Do not continue the application when the coating has reached this point.

Re-coat or Topcoating – Be sure all solvents and water have evaporated from the coating during the curing process. Test the area by touch to make sure that no finger print impressions are left. Colder temperatures will require more cure time for the product. Before re-coating or topcoating, check for epoxy blushes (whitish, greasy film or deglossing). If a blush is present, it must be removed prior to re-coating.

Clean-Up – Use xylol.

Floor Cleaning – Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique before cleaning the entire surface.

Note: Hydrostatic pressure from excessive moisture retained in the concrete due to the absence of a moisture barrier or slow cure of new concrete, is not the same as surface water from preparation steps. This product is not to be used on new concrete or where hydrostatic pressure is evident.

PRECAUTIONS

- Use with adequate ventilation
- Skin or eye exposure or inhalation can result in serious medical problems
- Avoid contact with eyes, skin and clothing; in the event of eye contact, immediately flush eyes with water and contact a physician
- Wear gloves or protective creams; if skin contact occurs, wash at the first opportunity with soap and water.
- Keep out of the reach of children
- For industrial use only
- Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

Technical Data	Tread-Shield™ Primer WB
Weight per gallon (per liter) Pigmented	9 - 12 lbs./ gal. (1.1 - 1.4 kg./l)
Recommended Film Thickness: Wet Dry	5 - 7 mils 2 - 3 mils
Shelf Life	One year, unopened
*Working Time @ 70°F (21°C)	A 1 gallon mixed unit left undisturbed will harden in 1 - 1.5 hours
*Set Time @ 70°F (21°C) Tack Free Recoat or Topcoat Light Foot Traffic Full Cure	5 - 8 hours 7 - 10 hours 16 - 24 hours 2 - 7 days
Coverage	230 - 320 ft² (21.37 - 29.73 m²)
Packaging (Kit)	2 gallon (7.5 l) 5 gallon (19 l)

*Time varies depending on air temperature and humidity.

For specific recommendations and coverage rates, please contact your local Garland Representative.

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Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. ±10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or the home office for more information.

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