TREAD-SHIELD® FLEX PRIMER

OVERVIEW & FEATURES

Tread-Shield Flex is a two component 100% solids epoxy designed for sealing traffic surfaces exposed to vehicular or foot traffic. This product is formulated for use in a broadcast system as the primer prior to installing epoxy mortars or other suitable flooring systems.

100% Solids – Reduces the amounts of solvent used over traditional primer.

APPLICATION

Product Storage – Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60˚ F and 90˚ F. Low temperatures or temperature fluctuations may cause crystallization.

Surface Preparation – The most suitable preparation would be a fine brush blast (shot blast) to remove all debris. All dirt, foreign containments 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.humboldtmfg.com/vapor-emissiontest-kit.html). For moisture testing, at least one test shall be performed for each 1000 ft^2 of floor surface to be treated. Another testing method prior to installation to make sure concrete is dry, place a 4' x 4' (1.22m x 1.22m) 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 has a mix ratio of 9.2# part A to 8.2# part B or one part A to one part B by volume. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free.

Product Application – The mixed material can be applied by brush or roller. However, the material can also be applied by a suitable serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained. Because this material has a short pot life, it is beneficial in some applications to remove the material from the mixing pail by pouring the material onto the substrate and spreading it along the floor. Spreading out the material will allow the applicator more time to work with the material before it begins to cure.

Aggregate should be broadcast into the applied material before applying suitable topcoats. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating.

Recoat or Topcoating – We recommend a suitable topcoat be applied after broadcasting suitable aggregate into the primer. If you recoat or topcoat this product, you must first be sure that the coating has tacked off before recoating. All previous coats that were not applied as a broadcast, should be deglossed to insure a trouble free bond prior to application of recoats or topcoats. It is advisable to test topcoats for suitability prior to application when not in a broad-cast system. Colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check for epoxy blushes (a whitish, greasy film, or deglossing.) If a blush is present, it can be removed by any standard detergent, cleaner prior to topcoating or recoating. Many epoxy coatings and urethanes as well as multiple coats of this product are compatible for use.

Clean Up – Use xylol

Floor Cleaning – CAUTION! Some cleaners may affect the color of the floor installed. Test each cleaner in a small, area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

PRECAUTIONS

- Use with adequate ventilation.
- Skin or eye exposure or inhalation can result in serious medical problems.
- Avoid contact with eyes, skin and clothing.
- Workmen should wear gloves or protective creams; if skin contact occurs, wash at the first opportunity with soap and water.
- In the event of eye contact, immediately flush eyes with plenty of water. Call a physician.
- 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.

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since 1895

Technical Data	Tread-Shield Flex Primer
Solids by Weight by Volume	 100% 100%
Recommended Thickness	10 to 50 mils
Elongation	60%
Shelf Life	One year in unopened container
***Working Time @ 70˚F (21˚C)**	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 (6-50 wet mils)	32-267 sq.ft./gal (varies depending on concrete surface profile)
Flexural Strength @ ASTM D 790	2,600 psi
Packaging (Kit)	2 gallon 10 gallon

*Time varies depending on air temperature and humidity.

For specific recommendations and coverage rates, please contact your local Garland Representative or Garland Technical Service Department.

For more information, visit us at: www.garlandco.com

The Garland Company, Inc.
3800 East 91st Street
Cleveland, OH 44105
FAX: 216-641-0633
Phone: 216-641-7500
Toll Free: 800-321-9336

Garland Canada Inc.
209 Carrier Drive
Toronto, Ontario
Canada, M9W 5Y8
FAX: 416-747-1980
Phone: 416-747-7995
Toll Free: 800-387-5991
(Only in Canada)

The Garland Company UK, LTD
Second Way Centre, Second Way
Avonmouth, Bristol UK BS11 8DF
Phone: 011 44 1174 401050 (Outside UK)
Toll Free: 0800 328 5560 (Only in UK)