



TECHGARD 295

HYBRID, ALIPHATIC, POLYUREA WATERPROOFING MEMBRANE TOPCOAT

PRODUCT DATA

Mix Ratio . . .10 Parts A to 1 Part B
Cure Time2-4 hours
Shelf life12 months

COLOR PIGMENTS

Tan
Dolphin Grey

Note: Custom colors are also available. Minimum order of 100 gallons (378 liters). See color chart for special provisions.

Contact Hightech for more information.

PACKAGING

4.4 gallon kit:

Part A One 5 Gallon Pail
(net 4 gallons)

Part B One 1/2 Gallon Jar
(net 0.4 gallons)

LEED CREDITS

The use of this Hightech product may contribute to obtaining LEED MR Credits 7.1 & 7.2

PRODUCT DESCRIPTION

TECHGARD 295 is a two component, fast setting, rapid curing and solvent free, high solids, hybrid aliphatic polyurea elastomeric membrane. TECHGARD 295 can be applied to properly prepared interior or exterior concrete, plywood and metal surfaces. It is suitable for single or multiple applications, in temperatures as low as 20°F and is insensitive to moisture.

ADVANTAGES

- Non-Gassing
- Solvent Free
- High Solids
- Environmentally Safe
- Seamless
- Quick Cure
- Hi Tensile Strength
- Meets USDA Criteria

APPLICATIONS

- Vehicular Decks
- Mechanical Room Floors
- Pedestrian Decks
- Kennels

PHYSICAL PROPERTIES

PROPERTY	VALUE	REFERENCE
Mix ratio by Volume	10 Parts A : 1 Part B	-
Dry Film Thickness per Coat	15 ± 2 mils (381 ± 50 microns)	-
Pot Life @ 75°F (24°C), 50% R.H	2-4 hours	-
Total Solids by Weight	90 ± 2%	ASTM D-2369
Total Solids by Volume	91 ± 2%	ASTM D-2697
Hardness	85 ± 5 Shore A	ASTM D-2240
Tensile Strength	3200 ± 200 psi (22.1 ± 2.1 MPa)	ASTM -412
Ultimate Elongation	450 ± 50%	ASTM -412
Adhesive Peel Strength on Primed Concrete	40 ± 10 pli (7.0 ± 1.7 kNm)	ASTM D-903
Moisture Vapor Transmission	1.54 perms	ASTM E-96
Moisture Absorption	1.3% by weight	ASTM D-471
Tear Resistance,	300 ± 20 pli (52.6 ± 3.5 kNm)	ASTM D-624
Volatile Organic Compounds	Volatile Organic Compounds	ASTM D-2369-81
U.V. Stability, Q panel Weather O-Meter (No cracking or crazing; no physical damage)	2000 hours	

MIXING

Before application, pre-mix Side-A of TECHGARD 295 using a mechanical mixer at slow speed. Add Side-B of TECHGARD 295 and continue mixing until a homogeneous mixture and color is obtained. Use caution not to whip air into the material as this may result in pinhole blisters and/or shortened pot life. Do not mix in an up and down motion.

APPLICATION

Apply TECHGARD 295 evenly, over the entire deck using a 10:1 ratio machine or mixed material, then squeegee or notched trowel over the entire deck.

Requires a continuous coating application to minimize lines and/or streaking. Apply up to 1.5 gallons / 100 sq. ft. (23 mils) in a single application. To obtain proper adhesion between coats, it is imperative that re-coating be done within 8-12 hours

CURING

At 75°F (24°C) and 50% relative humidity, allow each coat to cure a minimum of 2-4 hours. Cure time will vary depending on temperature and humidity. If more than 24 hours passes between coats, re-prime the surface with PRIMETECH U before proceeding.

Allow a minimum 48 hours before permitting light pedestrian traffic and at least 72 hours before permitting heavy pedestrian or vehicular traffic on the finished surface. Cure time will vary depending on temperature and humidity.

TECHGARD 295 is sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes. Do not use PROTECH PLUS with TECHGARD 295

CLEAN UP

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

STORAGE

TECHGARD 295 has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

LIMITATIONS

The following conditions must not be coated with Hightech deck coatings or systems: split slabs, buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, magnesite, and lightweight concrete. On grade slabs may receive Hightech system coatings provided a moisture-vapor transmission test is first performed. Please contact Hightech technical department with the results.

With regard to coating asphalt surfaces, please contact Hightech technical department.

Surfaces must be dry, clean and free of foreign matter. Clear coating may turn opaque and cloudy due to moisture penetration, especially in exterior applications. Surface may be slippery when wet. Containers that have been opened must be used as soon as possible. Do not dilute under any circumstance.

WARNING

This product contains Isocyanates.

TECHGARD 295 Side-B is considered Dangerous Goods. DOT regulations classify it as: UN 1760, Corrosive Liquid, N.O.S. (Contains Amine), Class 8, PG III.

LIMITED WARRANTY:

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Hightech representative or visit our website for current technical data and instructions.

Hightech warrants its products to be free of manufacturing defects and that they will meet Hightech current published physical properties. Hightech warrants that its products, when properly installed by a state licensed waterproofing contractor according to Hightech guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of one (1) year. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. There are no other warranties by Hightech of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Hightech shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Hightech shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Hightech reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

DISCLAIMER:

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Hightech makes no claim that these tests or any other tests, accurately represent all environments

KEEP OUT OF REACH OF CHILDREN