



**HIGHTECH**  
INDUSTRIAL COATINGS

# TECHGARD 246

AROMATIC, POLYURETHANE, WATERPROOFING MEMBRANE TOPCOAT

## PRODUCT DATA

Coverage ..... 1 gal/100 sq. ft  
Cure Time ..... 2-4 hours  
Shelf life ..... 12 months

## COLOR PIGMENTS

Stone Grey  
Tan

*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

5 Gallon (18.9 liter) pail

55 gallon (189 liters) drum

## LEED CREDITS

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

## PRODUCT DESCRIPTION

TECHGARD 246 is a single component, liquid applied, moisture cured, aromatic polyurethane waterproof membrane.

## APPLICATIONS

- Durable
- Good Weatherability
- Economical
- Proven Protection

## ADVANTAGES

- Airports
- Helicopter Pads
- Heavy Auto Traffic
- Heavy Pedestrian Traffic
- Stadiums
- Concrete Decks
- Parking Structures

## PHYSICAL PROPERTIES

PROPERTY	VALUE	REFERENCE
Coverage Rate	1 gal/100 sq. ft.	-
Dry Film Thickness per Coat	12 ± 2 mils (279 ± 50 microns)	-
Hardness	85 ± 5 Shore A	ASTM D-2240
Tear Resistance, Die C	250 ± 50 pli (43.8 ± 8.8 kN/m)	ASTM D-624
Tensile Strength	3200 ± 300 psi (22.1 ± 2.1 MPa)	ASTM D-412
Ultimate Elongation	500 ± 50%	ASTM D-412
Specific Gravity	1.164	-
Solar Reflective Index	90	
Total Solids by Weight	1.164	ASTM D-2369
Total Solids by Volume	72.0%	ASTM D-2697
Viscosity at 75°F (24°C)	1500 ± 500 cps	
Volatile Organic Compounds	2.03 lb/gal (243 gm/liter)	ASTM D-2369-81

## MIXING

Before application, mix TECHGARD 246 using a mechanical mixer at slow speed 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

For best results, use a squeegee. Airless sprayer or phenolic core roller may be used but extra care should be taken not to cause air bubbles. To avoid potential outgassing, material should be applied when concrete temperatures are descending.

Requires a continuous coating application to minimize lines and/or streaking. Allow coating to cure 16 hours before proceeding to subsequent coats. To obtain proper adhesion between coats it is imperative that re-coating be done within 48 hours.

## CURING

At 75°F (24°C) and 50% relative humidity, allow each coat to cure 16 hours. Cure time will vary depending on temperature and humidity. If more than 48 hours passes between coats, re-prime the surface with PRIMETECH U before proceeding.

At 75°F (24°C) and 50% relative humidity, allow 24-48 hours before permitting light pedestrian traffic and at least 72-96 hours before permitting heavy pedestrian or vehicular traffic on the finished surface.

TECHGARD 246 is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application. Low temperature and/or low humidity extend the cure time.

If accelerated curing is required, add one quart of PROTECT PLUS in a 5 gallon pail of TECHGARD 246 and mix thoroughly. This accelerated TECHGARD 246 will cure in 6-8 hours at 75°F (24°C) and 50% relative humidity.

## CLEAN UP

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

## STORAGE

TECHGARD 246 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 and Solvent.

### 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**