



HIGHTECH
INDUSTRIAL COATINGS

PROTECH 100

ALIPHATIC POLYURETHANE TOPCOAT

PRODUCT DATA

Coverage1 gal/100 sq. ft
Cure Time 16 hours
Shelf life12 months

COLOR PIGMENTS

Clear
Tan

*Custom colors are also available.
Minimum order of 250 gallons
(945 liters). See color chart for
special provisions.*

*Contact Hightech for more
information.*

PACKAGING

1 gallon (3.78 liter) can

5 gallon (18.9 liter) pail

55 gallon drum,
net fill 50 gallons (189 liters)

LEED CREDITS

The use of this Hightech product may contribute to obtaining LEED MR Credits 1.1 & 1.2

PRODUCT DESCRIPTION

PROTECH 100 is a polyester, aliphatic, single component, liquid applied, moisture cured, polyurethane topcoat for waterproofing membrane systems.

ADVANTAGES

- Durable
- Seamless Weatherproofing Membrane
- Excellent Weatherability
- UV Resistant For Gloss Retention

APPLICATIONS

- Concrete
- Plywood
- Some Types of Chemical Spills
- Most Metal, Wood or Masonry Surfaces
- Vehicular Traffic
- Heavy Pedestrian Traffic
- Re-sealing Existing Polyurethane Surfaces

PHYSICAL PROPERTIES

PROPERTY	VALUE	REFERENCE
Coverage Rate	1 gal/100 sq. ft.	-
Dry Film Thickness per Coat	10 ± 2 mils (254 ± 50 microns)	-
Hardness	95 ± 5 Shore D	ASTM D-2240
Tear Resistance, Die C	500 ± 50 pli (87.6 ± 8.8 kN/m)	ASTM D-624
Tensile Strength	3800 ± 300 psi (26.2 ± 2.1 MPa)	ASTM -412
Ultimate Elongation	250 ± 25%	ASTM -412
Specific Gravity	1.14	-
Total Solids by Weight	73 ± 2%	ASTM D-2369
Total Solids by Volume	64 ± 2%	ASTM D-2697
Viscosity at 75°F (24°C)	1200 ± 600 cps	
Volatile Organic Compounds	2.79 lb/gal (334 gm/liter)	ASTM D-2369-81

MIXING

Before application, mix PROTECH 100 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

Apply PROTECH 100 evenly over the entire deck. For best results, airless sprayer or phenolic resin core roller may be used but extra care should be taken not to cause air bubbles.

PROTECH 100 may require more than one coat depending on the job specifications and requirements. When estimating material requirements, coverage rates tend to increase for subsequent coats of material. To obtain proper adhesion between coats it is imperative that recoating be done within 48 hours. Requires a continuous coating application to minimize lines and/or streaking.

CURING

At 75°F (24°C) and 50% relative humidity, allow each coat to cure 16 hours between each coat. Cure time will vary depending on temperature and humidity. Allow 24 hours before permitting light pedestrian traffic and at least 72 hours before permitting heavy pedestrian or auto traffic on to the finished surface. If more than 48 hours passes between coats, re-prime the surface with PRIM-ETECH U before proceeding.

Uncured PROTECH 100 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.

CLEAN UP

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

STORAGE

PROTECH 100 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