



E-TUFF® WP

Waterproofing Epoxy Concrete Sealer

1.01 DESCRIPTION

E-Tuff® WP is a high solids, two-part epoxy coating system. It is designed as a waterproofing sealant and protective coat for concrete surfaces. Please use the correct product grade that complies with VOC regulations as per federal, state, county and city regulations/codes at the place of installation of product.

1.02 USES

- Abrasion resistant finish for concrete
- Automotive service areas, Warehouse flooring
- High abrasion and chemical resistance areas
- Laboratories, Clean rooms
- Rubber-wheeled vehicles and heavy foot traffic
- Sealing of concrete floors and walls
- Waterproofing of any concrete substrates
- Waterproofing of tops of concrete columns

1.03 FEATURES

- 99% solids epoxy coating system
- Available in standard colors on request
- Easily applied with a paint-like viscosity
- Excellent bonding to all structural substrates.
- Exceptional tensile strength
- Fast in service time - 24 Hours or less
- Good chemical resistance for long-term protection
- Long pot life
- Low viscosity for easy application
- Minimal sag on vertical surfaces
- Minimal shrinkage upon cure
- Pre-measured packaging of components.
- Prolongs service life of concrete surfaces
- Protects concrete reinforcing
- Seals moisture away from concrete cracks
- Super abrasion resistance for long-term wear.

1.04 TECHNICAL DATA

E-Tuff® WP meets or exceeds the ASTM C881, Types I and IV, Grade 1, Class C standard. Meets requirements for TxDOT DMS-6100 Type X Epoxy.

1.05 PACKAGING

1-gallon kit: 3/4 gallon can of Side-A (2.84 liters) and 1 quart can (0.94 liters) of Side B

5-gallon kit: 3 3/4 gallons pail of Side-A (14.2 liters) with 1-1/4 gallons (4.73 liters) pail of Side-B (Side-A and Side-B in the same pail)

1.06 COLOR

Concrete Gray

1.07 COVERAGE

100 sqft/gallon or 1 gallon/100 sqft (0.41 liters/sqm)

1.08 PREPARATION

Proper surface preparation is imperative for maximum service life. The concrete surface to be coated should be cleaned of all dirt, oil, grease, loose particles, and previous coatings. This is best achieved by sandblasting and/or water blasting, then ensuring that the surface is completely dry.

1.09 MIXING

Combine and mix **E-Tuff® WP** Side-A and Side-B in proportional parts as prepackaged by the PolyTuff Systems. A mechanical agitator such as a power drill with a mixing paddle attached should be used for about one minute per gallon of material being mixed. Hand mixing should be limited to very small projects. When using **E-Tuff® WP** epoxy, combine three parts of Side-A and 1 part of Side-B. Mix thoroughly. Properly mixed, the epoxy will be uniform gray, without visible streaks.

1.10 APPLICATION

Apply a thin, uniform film of mixed **E-Tuff® WP** to the substrate to be coated using a brush, roller or airless spray equipment at a spread rate of 100 square feet per gallon to yield 14 to 15 mils (355- 381 microns), wet film thickness, making sure of uniform coverage. Take care not to puddle materials and ensure even coverage.

1.10 CURING/DRY TIME

Cure Time: Initial- 8 hours; Final-7 days.

Dry Time: 8 hours.

Recoat Time: 8-24 hours

1.11 CLEANUP

Uncured epoxy may be cleaned off of tools with Methyl Ethyl Ketone (MEK), Toluene, Xylene, or solvent blends. Caution: These solvents may damage plastics.

1.12 STORAGE AND SHELF LIFE

Store in a horizontal position to prevent moisture accumulation on the drum head. The material should be stored between 40-95°F (4°-35°C) in a cool, dry area away from direct sunlight. The shelf life of properly stored is 12 months from the date of manufacture. An excessive temperature differential and/or high humidity can shorten the shelf life expectancy.

1.13 LIMITATIONS

- Avoid hazards by following all precautions found in the Safety Data Sheets (SDS), product labels, and technical literature.
- Avoid prolonged skin contact
- DO NOT place at temperatures below 40°F (5°C).
- Wear protective gloves and goggles.

READ SDS PRIOR TO USING PRODUCT. FOR PROFESSIONAL USE ONLY.KEEP OUT OF REACH OF CHILDREN.MADE IN THE USA.

PHYSICALS	
Coating Type	Epoxy cured with Polyaminoamide/ Polyoxpropylenediamine
Pigmentation	TiO2
Gel Time (60 g mass)	45 minutes
Tack Free Time (73°F or 23°C)	3 to 5 hours
Tensile Properties (ASTM D638)	
7 day cure	
Tensile Strength:	10000 psi (69.0 MPa)
Tensile Elongation:	1.2%
Bond Strength (ASTM C882)	
2 day cure:	2100 psi (14.5 MPa)
14 day cure:	2200 psi (15.2 MPa)
Compressive Properties (ASTM D695)	
7 day cure	
Compressive Strength:	11,000 psi (75.9 MPa)
Compressive Modulus:	300,000 psi (2,070 MPa)
Shear Strength (ASTM D732)	6000 psi (41.4 MPa)
Flexural Strength (ASTM D790)	7500 psi (51.7 MPa)

Please read all information in the General & Safety Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. PSI Products are for "Professional Use Only" and preferably applied by professionals who have prior experience with PSI Products or have undergone training in application of PSI Products. Published technical data and instructions are subject to change without notice. Contact your local PSI representative or visit our website for current technical data, instructions, and project specific recommendations.

LIMITED WARRANTY

PSI warrants its products to be free of manufacturing defects and that they will meet PSI current published physical and chemical properties. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by PSI of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. PSI 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. PSI 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. PSI 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 user's 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 PSI makes no claim that these tests or any other tests, accurately represent all environments.