



# STAINTUFF® 4000

A Two Component, 100% Solids, High Gloss, Aliphatic, Polyaspartic Topcoat

## 1.01 DESCRIPTION

Staintuff® 4000 is a 100% solids by volume, aliphatic, polyaspartic, two-component, liquid-applied, environmentally friendly surface topcoat for waterproofing membrane systems. It has a citrus odor. Staintuff® 4000 is quick curing and specifically formulated to be installed in thin film applications. Be sure to use the right product grade that complies with VOC regulations as per federal, state, statutory bodies, county and city regulations/codes at the place of installation of product.

## 1.02 FEATURES

- Quick Cure
- High Tensile Strength
- Abrasion Resistant
- Excellent Weatherability
- UV Resistant For Superior Gloss Retention
- Topcoat over Aromatic Polyurea, Polyurethane & Epoxy Applications Ranging from 35°-130°F (1.67-54.4°C), Service Temperature 0-200°F (-17.8-93.3°C)
- Color Stable
- High Gloss
- Very Durable
- Seamless Waterproofing Membrane

## 1.03 TYPICAL USES

- Concrete
- Plywood
- Cold Storage Areas
- Industrial Warehouses
- Chemical Plants
- Off-shore Oil Platforms
- Steel
- Plastic
- Food Processing Areas
- Pulp And Paper Mills
- Fertilizer Plants
- Pipeline Barges

## 1.04 COLORS

Clear, gray and tan. Custom colors are also available. Minimum order of 100 gallons (380 liters). See color chart for provisions.

## 1.05 PACKAGING

2-gallon kit of 1 gallon (3.78liters) can Side-A and 1 gallon (3.78liters) can Side-B.  
10-gallon kit of 5 gallon (18.9 liters) can Side-A and 5 gallon (18.9 liters) can Side-B.

## 1.06 SURFACE PREPARATION

Refer to General and Safety Guidelines for complete information. Install a 100-200 sqft (9.30-18.58 sqm) mock up of the system to be installed and approve for aesthetics, color, texture, actual coverage rates and functionality before proceeding.

## 1.07 MIXING

Staintuff® 4000 may not be diluted under any circumstance. Proportions are premeasured.

Staintuff® 4000 Side-A and Side-B should be mixed individually before combining. Add Side-B to Side-A while mixing, using a mechanical mixer (Jiffy Mixer) at medium speeds. Mix until a homogeneous mixture and color is obtained (at least 3 minutes) and mix frequently during applica-

tion to maintain uniform color. Use care to scrape the sides of the container to ensure that no unmixed material remains. Use caution not to whip too much air into the material as this may result in pinhole blisters or shortened pot life.

**DO NOT mix any material that cannot be used within 20 minutes.**

## APPLICATION

### 2.01 APPLICATION BASICS

Staintuff® 4000 can be applied by a phenolic-resin-core roller, a high pressure sprayer, or through an airless gun. Staintuff® 4000 should be applied at a minimum film thickness of 5 mils (127 microns). It should be noted that the heavier the application, the longer the curing process takes.

Apply Staintuff® 4000 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.

Refer to individual Systems Description under System Specifications Section of the Poly-Tuff Systems International (PSI) catalog or website for specific coverage rates.

Coverage rates and cure times will vary depending on temperature, relative humidity, surface roughness and porosity, aggregate selection, embedment, and application technique. Coverage rates provided are optimal and are not guaranteed.

### 2.02 CURING

At 75°F (24°C) and 50% relative humidity, allow each coat to cure a minimum of 3-4 hours between each coat. Cure time will vary depending on temperature and humidity.

Allow a minimum of 6 hours before permitting light pedestrian traffic and at least 24-48 hours before permitting heavy pedestrian or auto traffic on to the finished surface.

Uncured Staintuff® 4000 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.

### 2.03 EQUIPMENT CLEANUP

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

## 2.04 STORAGE

Staintuff® 4000 has a shelf life of twelve (12) months from date of manufacture when stored indoors at a temperature between 60°F to 95°F (15°C to 35°C) in original, factory-sealed containers.

## 2.05 LIMITATIONS

- **Mix no more material than can be used within 8 minutes.**
- 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.

- Containers that have been opened must be used as soon as possible.
- Do not dilute under any circumstance.
- The following conditions must not be coated with PSI deck coating systems: On grade or below grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pans, suspended pool decks, swimming pools, magnesite, light weight concrete, asphalt, surfaces and asphalt overlays.

**WARNING: This product contains isocyanates.**

## TECHNICAL DATA (Based on draw down films)

STAINTUFF® 4000, PIGMENTED	
Coverage Rate	See Guide Specification
Dry Film Thickness, Exclusive of aggregate, Per Coat @ 1 gal/100sqft	15 ± 1 mils 381 ± 25 micron
Pot Life at 75°F (24°C), 50% RH	30-40 minutes
Hardness, ASTM D-2240 Shore D	65 ± 2
Tear Resistance, Die C, ASTM D-624	400 ± 50 pli 70.1 ± 8.8 kN/m
Tensile Strength, ASTM-D412	3000 ± 200 psi 20.7 ± 1.4 MPa
Ultimate Elongation, ASTM D-412	50 ± 10%
Specific Gravity	
Side-A	1.14 ± 0.1
Side-B	1.24 ± 0.1
Total Solids by Weight, ASTM D-2369	91 ± 2%
Total Solids by Volume, ASTM D-2697	91 ± 2%
Viscosity at 75°F (24°C)	
Side-A	300 ± 100cps
Side-B	1400 ± 300cps
Volatile Organic Compounds, ASTM D-2369-81	0 lbs/gal 0 gm/liter

STAINTUFF® 4000, CLEAR	
Coverage Rate	See Guide Specification
Dry Film Thickness, Exclusive of aggregate, Per Coat @ 1 gal/100sqft	15 ± 1 mils 381 ± 25 micron
Pot Life at 75°F (24°C), 50% RH	30-40 minutes
Hardness, ASTM D-2240	65 ± 2 Shore D
Tear Resistance, Die C, ASTM D-624	450 ± 50 pli 78.8 ± 8.8 kN/m
Tensile Strength, ASTM-D412	3000 ± 200 psi 20.7 ± 1.4 MPa
Ultimate Elongation, ASTM D-412	70 ± 10%
Specific Gravity	
Side-A	1.1 ± 0.1
Side-B	1.06 ± 0.1
Total Solids by Weight, ASTM D-2369	90 ± 2%
Total Solids by Volume, ASTM D-2697	91 ± 2%
Viscosity at 75°F (24°C)	
Side-A	300 ± 100cps
Side-B	1000 ± 300cps
Volatile Organic Compounds, ASTM D-2369-81	0 lbs/gal 0 gm/liter

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 the 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 properties. PSI warrants that its products, when properly installed by a state licensed waterproofing contractor according to PSI guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of 12 months. 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.

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