POLY-TUFF SYSTEMS INTERNATIONAL
WATERPROOFING DIVISION

STAINTUFF® 4072/4072 (SC)

A Two Component, Fast Curing, High Gloss Aliphatic Topcoat

1.01 DESCRIPTION

Staintuff® 4072/4072 (SC) is a 72% solids by volume, aliphatic, polyaspartic, two component, liquid applied, topcoat for waterproofing membrane systems. It is environmentally friendly. Staintuff® 4072 is quick curing and specifically formulated to be installed in thin film applications. Staintuff® 4072 is 250 VOC. Staintuff® 4072(SC) is 100 VOC. 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 FEATURES

- Abrasion Resistant
- Color Stable
- Excellent Weatherability
- High Gloss
- High Tensile Strength
- Quick Cure
- Seamless Waterproofing Membrane
- UV Resistant For Superior Gloss Retention
- Very Durable
- 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)

1.03 USES

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

1.04 COLOR

Clear, Grey 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 : 1 gallon (3.78 liters) can Side-A and 1 gallon (3.78 liters) can Side-B

10-gallon kit: 5 gallon (18.9 liters) pail Side-A and 5 gallon (18.9 liters) pail Side-B

1.06 SURFACE PREPARATION

Refer to General and Safety Guidelines for complete information. Install a 100-200 sqft (9.3-18.6 sqm) mockup of the system to be installed and approve for aesthetics, color, slip resistance, actual coverage rates and functionality before proceeding.

1.07 MIXING

Staintuff® 4072/4072 (SC) may not be diluted under any circumstances. Staintuff® 4072/4072 (SC) 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. When using a color pack system, "boxing" from one mixed pail to the next is recommended. Always save 1 gallon (1.89 liters) or more and mix into the next pail to prevent color variation. Likewise, with pre-tinted top coats, mix the last gallon or two from the previous batch into the new batch number. Box the last gallon of the last used batch numbers with the new batch number to prevent hue or shading variation. Use care to scrape the sides of the container to ensure that no unmixed material remains. NOTE: Use caution not to whip too much air into the material as this may result in pinhole blisters or shortened pot life.

Staintuff® 4072/4072 (SC) may not be diluted with solvent under any circumstance. **DO NOT mix any material that cannot be used within 45 minutes.**

APPLICATION

2.01 APPLICATION BASICS

Staintuff® 4072/4072 (SC) can be applied by phenolic resin core roller, high pressure sprayer, or through a cup gun under low pressure. Staintuff® 4072/4072 (SC) 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.

Refer to individual Systems Description under System Specifications section of the PSI catalog or website for specific coverage rates.

Apply Staintuff® 4072/4072 (SC) 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.

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 70°F (21°C) and 50% relative humidity, allow each coat to cure a minimum of 2-4 hours between each coat. 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® 4072/4072 (SC) 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.

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2.03 EQUIPMENT CLEANUP

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

2.04 SHELF LIFE AND STORAGE

Staintuff® 4072/4072 (SC) has a shelf life of 12 months from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

2.05 LIMITATIONS

- Mix no more material than can be used within 45 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 or products:

1) On grade or below grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, suspended pool, swimming pool decks, or areas where hydrostatic pressure is or may be present, without the use of Enviro-Grip™ 404FC primer. PSI Deck Coating is not recommended over magnesite, gypsum lightweight and where chained or studded tires may be used.

2) Concrete must exhibit 3000 psi minimum strength. An ICRI CSP 2-3 surface or greater is required for concrete surfaces to be coated.

3) New concrete must be cured for 28 days unless otherwise approved by PSI in writing. New surfaces to be coated must be trowel finished in compliance with the American Concrete Institute (except that hand troweling is not required), followed by a fine hair brooming, left free of loose particles, and shall be without ridges, projections, voids and concrete droppings that would be mechanically detrimental to coating application or function. Light broom finished concrete should be power-washed before coating application.

4) Concrete cleaning (see General and Safety Guidelines). Surface preparation may be completed by shotblasting or the use of Poly-Tuff Profile and Etch (PE) cleaner. Peel and adhesion tests are recommended.

WARNING: This product contains isocyanates and solvent.

TECHNICAL DATA: STAINTUFF® 4072 ,PIGMENTED (Based on draw down films)	
Theoretical Coverage Rate	See individual Guide Specs
Dry Film Thickness, Exclusive of Aggregate, Per Coat @ 1 gallon/100 sqft (0.41 liters/sqm)	11 ± 2 mils 279± 50 microns
Pot Life at 75°F (24°C) at 50% RH	45-60 minutes
Viscosity at 75°F (24°C)	A-Side: 200 ± 50 cps B-Side: 300 ± 200 cps
Specific Gravity	A-Side: 1.04 ± 0.1 B-Side: 1.25 ± 0.1
Solids by Weight ASTM D-2369	79 ± 2%
Solids by Volume ASTM D-2697	72 ± 2%
Hardness, ASTM D-2240 Shore D	50 ± 5
Tensile Strength, ASTM-D412	2300 ± 10% psi (15.8 ± 10% MPa)
Ultimate Elongation, ASTM D-412	50 ± 10%
Tear Resistance, ASTM D-624	300 pli+ 50 pli (52.6 ± 8.8 kN/m)
Volatile Organic Compounds,ASTM D-2369-81	1.97 lbs/gal (263 gm/liter)

TECHNICAL DATA: STAINTUFF® 4072, Clear (Based on draw down films)	
Theoretical Coverage Rate	See individual Guide Specs
Dry Film Thickness, Exclusive of Aggregate, Per Coat @ 1 gallon/100 sqft (0.41 liters/sqm)	11 ± 2 mils (279± 50 microns)
Pot Life at 75°F (24°C) at 50% RH	45-60 minutes
Viscosity at 75°F (24°C)	A-Side: 200 ± 50 cps B-Side: 200 ± 50 cps
Specific Gravity	A-Side: 1.05 ± 0.1 B-Side: 1.01 ± 0.1
Solids by Weight ASTM D-2369	77 ± 2%
Solids by Volume ASTM D-2697	72 ± 2%
Hardness, ASTM D-2240 Shore D	50 ± 5
Tensile Strength, ASTM-D412	2500 ± 10% psi (17.2 ± 10% MPa)
Ultimate Elongation, ASTM D-412	75 ± 20%
Tear Resistance, ASTM D-624	300 pli+ 50 pli (52.6 ± 8.8 kN/m)
Volatile Organic Compounds,ASTM D-2369-81	1.97 lbs/gal (263 gm/liter)

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TECHNICAL DATA SHEET
SECTION 3.4.9

TECHNICAL DATA: STAINTUFF® 4072 (SC), PIGMENTED (Based on draw down films)	
Theoretical Coverage Rate	See individual Guide Specs
Dry Film Thickness, Exclusive of Aggregate, Per Coat @ 1 gallon/100 sqft (0.41 liters/sqm)	14 ± 2 mils (356± 50 microns)
Pot Life at 75°F (24°C) at 50% RH	45-60 minutes
Viscosity at 75°F (24°C)	A-Side: 200 ± 50 cps B-Side: 300 ± 50 cps
Specific Gravity	A-Side: 1.07 ± 0.1 B-Side: 1.27 ± 0.1
Solids by Weight ASTM D-2369	91 ± 2%
Solids by Volume ASTM D-2697	89 ± 2%
Hardness, ASTM D-2240 Shore D	65 ± 5
Tensile Strength, ASTM-D412	3500 ± 10% psi (24.1 ± 10% MPa)
Ultimate Elongation, ASTM D-412	50 ± 20%
Tear Resistance, ASTM D-624	400 pli+ 50 pli (70.1 ± 8.8 kN/m)
Volatile Organic Compounds,ASTM D-2369-81	0.83 lbs/gal (100 gm/liter)

TECHNICAL DATA: STAINTUFF® 4072 (SC), Clear (Based on draw down films)	
Theoretical Coverage Rate	See individual Guide Specs
Dry Film Thickness, Exclusive of Aggregate, Per Coat @ 1 gallon/100 sqft (0.41 liters/sqm)	14 ± 2 mils (356± 50 microns)
Pot Life at 75°F (24°C) at 50% RH	45-60 minutes
Viscosity at 75°F (24°C)	A-Side: 200 ± 50 cps B-Side: 200 ± 50 cps
Specific Gravity	A-Side: 1.07 ± 0.1 B-Side: 1.20 ± 0.1
Solids by Weight ASTM D-2369	90 ± 2%
Solids by Volume ASTM D-2697	88 ± 2%
Hardness, ASTM D-2240 Shore D	65 ± 5
Tensile Strength, ASTM-D412	3500 ± 10% psi (24.1 ± 10% MPa)
Ultimate Elongation, ASTM D-412	50 ± 20%
Tear Resistance, ASTM D-624	400 pli+ 50 pli (70.1 ± 8.8 kN/m)
Volatile Organic Compounds,ASTM D-2369-81	0.83 lbs/gal (100 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 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.

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