



**POLYCOAT  
PRODUCTS**

A Division of American Polymers Corp.

TECHNICAL DATA SHEET | Section 7.13

**POLYCOAT STAINGARD™ 8072SC**

*Aliphatic, Polyaspartic,  
Polyurea Waterproofing Membrane Topcoat*

## Product Description

Polycoat Staingard™ 8072SC is an aliphatic polyaspartic, environmentally-friendly surface topcoat for waterproofing membrane systems. Polycoat Staingard™ 8072SC is quick curing and specifically formulated to be installed in thin film applications. Polycoat Products manufactures products in different VOC's ranging from 100 to 340 gms/liter to comply with VOC requirements in various regions. Make sure to use the right grade of product which complies with VOC regulations/requirements applicable as per federal, state, statutory, counties, cities and local bodies at the place of installation.

## Features

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

## Typical Uses

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

## Packaging

<b>2-gallon kit</b>	One 1 gallon (3.78 liters) can Side-A and One 1 gallon (3.78 liters) can Side-B
<b>10-gallon kit</b>	One 5 gallon (18.9 liter) pail of Side-A and One 5 gallon (18.9 liter) pail of Side-B 10-gallon kit is not a stock item and is available with minimum order of 100 gallons (378 liters)

## Color

Clear

## Coverage

The approximate coverage is 1 gallon/100 sqft (0.41 l/sqm). Coverage rate will depend on surface roughness and porosity.

## Surface Preparation

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

## Technical Data (Based on Draw Down Film)

### Staingard™ 8072SC

**Mix Ratio by Volume** 1A : 1B

**Coverage Rate** 1 gal/100 sqft  
(0.41 l/sqm)

**Dry Film Thickness per Coat** 14 ± 2 mils  
356 ± 50 microns

**Pot Life @ 75°F (24°C), 50% R.H.** 40-45 minutes

**Hardness, ASTM D2240** 65 ± 5 Shore D

**Tear Resistance, ASTM D624** 400 ± 20 pli  
70.1 ± 8.8 kN/m

**Tensile Strength, ASTM D412** 3500 ± 300 psi  
24.1 ± 2.1 MPa

**Ultimate Elongation, ASTM D412** 50 ± 10%

**Specific Gravity, Side A** 1.07 ± 0.03  
**Side B** 1.02 ± 0.03

**Total Solids by Weight, ASTM D2669** 90 ± 2%

**Total Solids by Volume, ASTM D2697** 88 ± 2%

**Viscosity at 75°F (24°C), Side A** 200 ± 50 cps  
**Side B** 200 ± 50 cps

**Volatile Organic Compounds, ASTM D2369-81** 0.83 lb/gal  
100 gm/liters

Refer to product General Guidelines for detailed surface preparation information.

Minimum recommended surface preparation:

### METAL:

SSPC-SP6/NACE 3, 2 mils (50 microns) profile.

### CONCRETE & MASONRY:

SSPC-SP13/NACE 6 or ICRI No. 310.2 CSP 3-5. Primer required.

## Mixing

Polycoat Staingard™ 8072SC may not be diluted under any circumstance. Polycoat Staingard™ 8072SC Side-A and Side-B should be mixed individually before combining. Add Side-B to Side-A while mixing, using a mechanical mixer at medium speed. Mix until a homogeneous mixture and color is attained (at least 5 minutes) and mix frequently during application 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 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. Do not mix any material that cannot be used within 45 minutes.

## Application

Polycoat Staingard™ 8072SC can be applied by phenolic resin core roller, high pressure spray, or through a cup gun under low pressure. Polycoat Staingard™ 8072SC should be applied at a minimum film thickness of 5 mils. It should be noted that the heavier the application, the longer the curing process takes.

Apply Polycoat Staingard™ 8072SC evenly over the entire deck. For best results, use an airless sprayer. A phenolic resin core roller may be used, but extra care should be taken not to cause air bubbles.

## Curing

At 75°F (24°C) and 50% relative humidity, allow each coat to cure 2-4 hours.

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

Uncured Polycoat Staingard™ 8072SC 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. If more than 12 hours have passed after applying clear coat of Polyaspartic, then re-prime surface with Polyprime® U and apply Polycoat™ Staingard pigmented coat. If clear coat is required, then clear coat should be applied only after pigmented coat. If clear coat is applied after primer, the primer will become yellowish with exposure to light and surface will look not aesthetically pleasing.

Low temperature and/or low humidity extend the cure time.

## Cleanup

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

## Storage

Polycoat Staingard™ 8072SC 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 Polycoat deck coatings or systems: split slabs, buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, magnesite, and non-structural lightweight concrete. On grade slabs may receive Polycoat system coatings provided a moisture-vapor transmission test is first performed. Please contact Polycoat's technical department with the results.

With regard to coating asphalt surfaces, please contact Polycoat's 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, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. These products are for professional use only and preferably applied by professionals who have prior experience with the Polycoat Products materials or have undergone training in application of Polycoat Products materials. Published technical data and instructions are subject to change without notice. Contact your local Polycoat Products representative or visit our website for current technical data, instructions, and project specific recommendations.

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