PRODUCT DATA SHEET

# GlassCoat – SP300

## Glass Flake Polyester

**GENERIC TYPE:**
2 pack Glass Flake Polyester

**DESCRIPTION:**
***GlassCoat-SP300*** is a spray applied system containing many compacted layers of glass flake, which gives a film which is very resistant in aggressive environments for protecting steel. ***GlassCoat-SP300*** contains glass flake reinforcement and provides a tough, chemical resistant, flexible coating that is ideally suited for aggressive water service (salt, brackish). Enhanced by multi functional chemistry, ***GlassCoat-SP300*** is suited for acid and caustic service, and is excellent in water environments.

**FEATURES:**

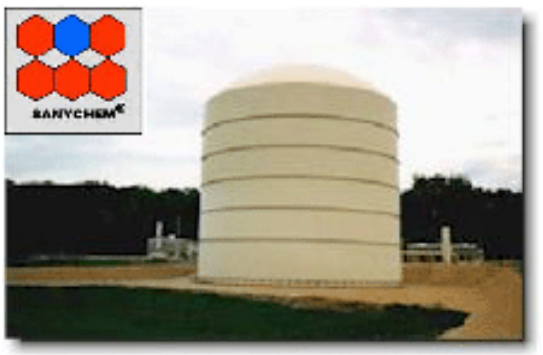
- Excellent abrasion resistance
- Excellent impact resistance
- Excellent long term protection
- Excellent resistance to hypochlorites and free chlorine
- Outstanding impermeability
- Single coat, self-priming capabilities
- VOC compliant to current EPA 1990 PG6/23(97).

**RECOMMENDED USES:**
***GlassCoat-SP300*** is a versatile coating that provides an impenetrable film for severe exposures in marine, offshore, petrochemical, pulp & paper and other aggressive environments. It is particularly recommended where there is heavy mechanical wear such as on helipads, splash zones, quays, ship decks etc. It is used on ship hull exteriors and to protect splash zone areas on offshore structures.

- Trenches
- Containment Vessels and Dikes
- Tank Linings
- Process area surfaces.

**NOT RECOMMENDED FOR:**
Not recommended for immersion service in alkalis or aromatic solvents. Not suitable for use on concrete.

**SUBSTRATES:**
Apply to properly prepared steel or others as recommended.



**SPECIFICATION DATA**

- **Solids Content By Volume:** 98% ± 2%

- **Theoretical Coverage Rate per Gallon: ***

  392 sq. m / Lit. at 25 microns
  1.0 sq. m / Lit. at 1 mm.
  Allow for loss in mixing and application

- **VOC Values As supplied:** 2 g/l
  This is a nominal value and may vary slightly with colour.

- **Recommended Dry Film Thickness per Coat :**
  Two coats 20 mils (500 microns) each by spray

* Mixing and application losses will vary and must be taken into consideration when estimating job requirements.

- **Flexibility :** Fair
- **Tensile Strenght :** 279 kg/cm²
- **Flexural Strenght :** 654 kg/cm²
- **Abrasion Resistance:** Excellent
- **Impact Resistance** Excellent

- **Temperature Resistance** (Non-Immersion)
  Continuous : 200 °F ( 93 °C)
  Non-Continuous : 250 °F ( 121 °C)

  For immersion, temperature depends on exposure, but maximum is 140 °F (60°C). Metal tanks operating above 60 °C must be normally be insulated.

- **Color Standard in :** Off-White only

- **Gloss :** N/A

- **Pot Life :** 4 hours at 75 °F (24 °C) and less at higher temperatures. Pot life ends when the coatings loses body and begins to sag.

- **Shelf Life :** Six months when stored at 40- 90 °F ( 4-32 °C ). High shipping and storage temperatures may reduce shelf life.

**Storage Conditions:** Store indoors.
Temp.: 5 - 45 °C
Humidity: 0 - 100%

**TOPCOAT REQUIRED:**
None required.

**COMPATIBLE COATINGS:**
***GlassCoat-SP300*** is Not recommended over other coatings. Consult **SanyChem** Technical Service Department for specific recommendation.

**TYPICAL CHEMICAL RESISTANCE**

| Exposure | Splash & Spillage | Fumes | Immersion |
|---|---|---|---|
| Acids (Mineral) | Excellent | Excellent | Excellent |
| Acids (Organic) | Excellent | Excellent | Excellent |
| Alkalies (diluite) | Good | Good | Fair |
| Salts | Excellent | Excellent | Excellent |
| Water | Excellent | Excellent | Excellent |
| Solvents | Fair | Good | Poor |

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# APPLICATION INSTRUCTIONS

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions, and application procedure. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

## Substrates & Surface Preparation

***General*** Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.

***Steel***

| | |
|---|---|
| Immersion: | SIS-Sa3 (SSPC-SP5) |
| Non-Immersion: | SIS-Sa2_ (SSPCSP10) |
| Surface Profile: | 75 - 100 mm |

***Spray Application (General)*** The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

***Airless Spray***

| | |
|---|---|
| Pump Ratio: | 45:1 (min.) |
| Volume Output: | 11.5 l/min (min.) (2.5 gpm min.) |
| Material Hose: | 12.5mm (min.) (_" I.D. min.) |
| Tip Size: | 0.89–1.14mm (0.035 - 0.045") |
| Output Pressure: | 155-176 kg/cm_ (2200-2500 psi) |
| Filter Size: | Not recommended |

***Brush & Roller*** Not recommended, but may be used for small areas.

***Mixing*** Power mix **GlassCoat-SP300** Part A separately, then add Catalyst and Accelerator in accordance with table below. CAUTION. KEEP CATALYST AND ACCELERATOR SEPARATE, DO NOT MIX TOGETHER.

| | ***5 Gallon Kit.*** |
|---|---|
| ***GlassCoat-SP300 P/A*** | 5 Gal. |
| ***GlassCoat-SP300 P/B*** | 14 fl oz |

***Ratio*** Dependent on temperature. See table below.

***Thinning*** Not normally required. However 7% of **SolvenSany # 278** may be used to reduce the viscosity. Use of thinners other than those supplied or recommended by ***SanyChem*** may adversely affect product performance and void product warranty, whether expressed or implied.

***Pot Life*** Dependant on mixing ratio and temperature. See table below. Pot life ends when coating starts to generate heat or builds viscosity. Pot life times will be less at higher temperatures.

## APPLICATION CONDITIONS

| | Material | Surfaces | Ambient | Humidity |
|---|---|---|---|---|
| Normal | 15 – 30 °C | 15 – 30 °C | 15 – 30 °C | 30 – 80 % |
| Minimum | 0 °C | 10 °C | 15 °C | 0 % |
| Maximum | 45 °C | 45 °C | 50 °C | 90 % |
| Do not apply when the surface temperature is less than 5 °F or 3 °C above the dew point. | | | | |

Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. Special application techniques may be required above or below normal application conditions.

• Styrene monomer evaporation during application and cure may result in up to a 20% lower coverage rate compared to theoretical usage.

• Application of ***GlassCoat-SP300*** when the material and surface temperature are above normal will result in greater monomer loss, causing lower coverage rates.

• With the recommended blast profile, up to 10% additional material will be require to fill in the blast profile.

• Practical coverage rates of 20 – 30 square feet per gallon have been experienced with ***GlassCoat-SP300*** for a two-coat application, depending upon roughness and configuration of the surface, and application conditions.

## DRYING TIMES

| Surface &Product Temperature | Catalyst Addition v/v (ml per 18 Lit. kit) 4.0% | Catalyst Addition v/v (ml per 18 Lit. kit) 0.4% | Pot Life (hours ) | Time to recoat | |
|---|---|---|---|---|---|
| | | | | Min. | Max. |
| 10° - 15°C | 4.0% ( 720 ) | 0.4% ( 72 ) | 2 – 3 | 4 Hrs | 8 Hrs |
| 15° - 20°C | 4.0% ( 720 ) | - | 2 – 3 | 4 Hrs | 8 Hrs |
| 20° - 25°C | 2.5% ( 450 ) | - | 1 - 2 | 4 Hrs | 6 Hrs |
| 25° - 30°C | 2.5% ( 450 ) | - | < 1 | 3 Hrs | 5 Hrs |

The second coat should be applied while the first coat is still tacky.

***Final Cure***: Before placing into service.

| ***Surface Temperature*** | |
|---|---|
| 13 °C | N/R |
| 24 °C | 14 Days |
| 32 °C | 07 Days |
| 55 °C | 24 Hrs |

**Force curing is recommended for all tank linings. Final cure temperature below 16 °C are not recommended for immersion service. Excessive dry film thickness or poor ventilating conditions require longer dry time and in extreme cases will cause premature failure.**

***Repair Procedure:*** In areas where the coating has been damaged or removed to the substrate, the following procedure must be used.

• Clean and roughen the substrate in the manner specified for the original application, or in cases where the substrate has not been exposed, remove the loose or damaged material to sound, tightly adhered material.

• Grind to featheredge existing, sound, tightly adhering material and overlap area.

• Solvent wipe edges and any overlap areas with SolvenSany # 260 and apply repair material in one or two coats as specified.

## Cleanup & Safety

***Cleanup*** Use **SolvenSany # 252**. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

***Safety*** Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas. Personal protective equipment meeting the requirements of the COSHH regulations should be worn.

***Ventilation*** When used as a tank lining or in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapour (Styrene) concentration from reaching the lower explosion limit for the solvents used. In addition to ensuring proper ventilation, appropriate respirators must be used by all application personnel. Appropriate Working in Confined Spaces Regulations should be followed.

***Caution*** **This product exotherms at the end of its pot life. Any unused quantities will become extremely hot and will generate smoke and fumes. STORE AND KEEP CATALYST AND ACCELERATOR SEPARATE, DO NOT MIX TOGETHER AS COMBUSTION WILL OCCUR.**

***FOR INDUSTRIAL USE ONLY. KEEP AWAY FROM CHILDREN. 1/2001***


**Contact**

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