



100SA White & Neutral

Premier Surfaces, Inc.

205 N. Aspan Ave, #5, Azusa, CA 91702 • (636) 533-2718

DTM Water Reducible Coating

Characteristics

- Direct to metal finish
- Fast Dry
- 30 – 40 Gloss Satin Finish
- Water based and Single Package
- Excellent Color & Gloss Retention
- VOC Compliant

Typical Uses

100SA is a white satin gloss DTM product for use on handrails, piping, structural steel, tanks, misc. metal parts in refineries, power plants pulp & paper mills and on railcars where a quick dry single coat product is needed.

Physical Data

Temperature Resistance (non-immersion)

Continuous	180°F
Non-Continuous	250°F

Theoretical Solids by Volume (SBV)	29%
Theoretical Solids by Weight (SBW)	40%

Viscosity 95 – 105 K.U. @ 77°F

Volatile Organic Content

Excluding water	2.28 lbs/gal (274 gms/ltr)
Including water	0.92 lbs/gal (111 gms/ltr)

Chemical Resistance

Is resistant to water and saltwater fumes in general atmospheric exposures. Is not recommended for immersion service. Talk to your representative for specific exposure recommendations.

Film Thickness (per coat)

Dry film thickness:	1.0 to 2.0 mils
Wet film thickness:	3.4 to 6.8 mils

Theoretical Coverage:

465 sq. ft./gal @ 1 mils DFT
232 sq. ft./gal @ 2 mils DFT

These coverage rates are theoretical. Actual cover will be less dependent upon method of application and application conditions. One coat is normally required but additional coats may be required depending upon the surface being covered.

Shipping Data

Packaging unit	<u>1 gal.</u>	<u>5 gal.</u>
Ship weight (approx..)	11 lbs.	55 lbs.
Flash Point: (Setaflash)	Over 200°F	

Shelf Life: 1 year when stored inside at 40°F to 100°F. Do Not allow product to freeze.



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Surface Preparation

Remove oil and grease from the surface with solvent or a commercial cleaner, which does not leave a residue in accordance with SSPC-SP1. Make sure the surface is clean and dry before applying the coating and that the dew point is at least 5°F higher than the actual air and surface temperature.

Mixing and Application

Power mix until uniform, then thin as required with water up to 15% to 20% maximum. This product can be applied as a single coat or a two-coat system by cutting in all angles, sharp edges and flat surfaces with a mist coat followed by a full coat. The first coat should be allowed to tack slightly before applying the full coat. This product is single package and can be used once it is opened and mixed. However, once exposed to the air, a skin can develop on the surface of the paint.

Application Conditions

	<u>Material</u>	<u>Surface</u>	<u>Ambient</u>
Minimum	50°F	50°F	50°F
Maximum	90°F	100°F	100°F

Special Thinning and application procedures are required outside of these temperatures. Surface temperatures should be 5°F above the dew point to prevent condensation, which may dull the finish and/or inhibit adhesion of the coating. Do not apply above 80% relative Humidity

Cleanup

Cleanup with clean, potable water followed by a solvent such as Isopropyl Alcohol or Butyl Cellulolve.

Application Equipment

CONVENTIONAL SPRAY: Industrial sprayers such as DeVilbiss MBC or JGA and Binks 18 or 62 guns with dual regulator to control pot pressure and gun pressure separately. Minimum 3/8" I.D. Material Hose with a 0.070" diameter Fluid Tip and air cap are recommended.

AIRLESS SPRAY: Graco airless sprayer, electric or pneumatic capable of 1800 – 2200 PSI at the gun or similar from other manufacturers. Use 0.013 – 0.017" tip and adjust pressure for atomization. A 60-mesh inline filter is recommended.

POWER MIXER: Use only explosion proof power mixers.

BRUSH OR ROLLER: Use medium Brush and short nap roller with solvent resistant fibers and core.

Drying Time

The following minimum times are based upon a 2 mil DFT thickness and adequate air ventilation. Higher thickness and reduced air circulation or high humidity will increase drying times.

<u>Surface Temp</u>	<u>To Touch</u>	<u>To Handle/Recoat</u>
50°F	4 hrs.	16 hrs.
60°F	2 hr.	6 hrs.
70°F	45 min.	1 hr
80°F	30 min.	45 min.
90°F	20 min.	30 min.

Maximum Recoat

100SA is formulated to provide maximum bond strength between coats after weathering. Consequently, there is no time limitation regarding the maximum cure time prior to recoating with itself. However, the aged coating must be clean and free of chalk.

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