

FleetSpec™ 1233

Satin Finish

Premium Polyurethane Top-Coat™



Description:

Satin Finish, low VOC Acrylic Polyurethane. This fast drying, satin product has been designed to offer excellent long term protection in moderate to severe environments. The formulation of this product is engineered to resist fresh water, salt water, most chemicals, fumes and spills of most solvents, acids and alkalies. FleetSpec 1233 is abrasion and moisture resistant. FleetSpec 1233 is an extremely durable satin gloss, DTM coating or a topcoat for primed steel surfaces. Product is recommended for commercial, industrial, and marine use on machinery, trailers, containers, implements, structures and vehicles. Applications where excellent color is expected along with excellent scratch and abrasion resistance.

Advantages:

- High Chip Resistance
- Excellent Color Retention
- Superior Adhesion
- Flexibility
- Long Working Time
- Strong Chemical Resistance
- Excellent Corrosion Resistance
- Superior Impact Resistance

Uses:

- Commercial Vehicles
- Marine
- Machinery
- Trailers
- Implements
- Structures
- Containers

Material Properties:

Gloss Level	35° - 55
Density	9.09 lbs./gal 1.09 kg/ltr (mixed)
Volume Solids	47% (mixed)
VOC	3.15 lbs./gal. 377 grams/ltr. (mixed)
Dry Film Thickness	2.0-4.0 mils
Pot Life	3- hours (mixed) @ 68°F / 20°C
Theoretical Coverage	2.0 DFT @ 360 ft ² /gal.
Practical Coverage	As a guideline for airless spraying on large dimensions: 70% of theoretical coverage. For small dimensions: 50%

Surface Preparation:

New or Unfinished Surfaces:

Ferrous Metal: For use as a DTM coating over Pretreated Steel or Topcoat over DualCure 306, FleetSpec 850 and FleetSpec 900 Primers.

Blast Cleaning" (SSPC-SP6) is recommended as the minimum for blast cleaning. Proper blast media and blasting equipment shall be used to produce a minimum profile depth of 1.5 mils minimum. Do not reuse abrasive media. Remove blasting dust and grit from surfaces before painting. Blasted surfaces should be coated within 8 hours after blasting or before rusting or other contamination of the surface occurs.

If blasting is not possible, use "Hand or Power Tool Cleaning: (SSPC-SP2 or -SP3). At minimum the surface should be clean of all grease, dirt, oil, rust, and foreign material that would be detrimental to proper adhesion and desired performance of the coating system being applied. Use FleetSpec primers before applying the FleetSpec 1233.

Galvanized Metal: Use of recommended primer is necessary

Aluminum or Stainless Steel: Prime with FleetSpec 850. For best performance, application to abrasive blasted surface is recommended or etch with a phosphoric acid pretreatment solution is recommended for maximum adhesion. Clean all contamination by scrubbing with a cleaning soap solution.

Mixing Instructions:

Thoroughly mix product, preferably using a mechanical mixing device. The temperature of the mixed product should be at least 45°F during application. Mix 3 parts FleetSpec 1233 Part A with 1 part of ACT-Z45.

Application:

Spray Method	Airless	Air Assisted Airless	Air Spray / HVLP
Thinner	MAK	MAK	MAK
Quantity	0-10%	0-10%	0-10%
Nozzle or Tip Size	0.011-.013	0.011-.013	1.0-1.5
Fluid Pressure	2000 - 3000 PSI	1000 - 1500 PSI	8-10 PSI
Air Pressure	NA	50 PSI	45 PSI
Dry Film Thickness	2.0-4.0 Mils	2.0-4.0 Mils	2.0-4.0 Mils

Performance Characteristics:

Accelerated Weathering:
ISO 11507 / ASTM G154 2500 hours
ISO 2813 / ASTM D523 gloss retention @ 60° > 50%

Corrosion Resistance: 750
ASTM B-117 Over Hours
Bonderite 1000

Impact (Direct & Indirect) 110 in lbs Direct
ASTM D-2794 45 Reverse

Chemical Resistance 100 Double MEK Rubs

Flexibility: Cylindrical Mandrel 10mm ISO
ISO 1519 / ASTM D522 1520 Cupping 5-7 mm

Abrasion Resistance: Taber CS-17 / 1kg 400
ASTM D4060 cycles: 100 mg loss

Cleaning Instructions:

Cleaning tools: Clean immediately after application using MEK.

Cure Schedule: 70 F @ 2-4 mils DFT:

To Touch: 45 mins.

To Handle: 2-hrs

To Re-Coat: 10-30 mins. minimum or wait for 6 hrs
max (24 hrs min) @ 2.5 mils dry

Force Cure: 30 minutes @ 150°F
* Scuffing required after 24-hours

Health & Environmental:

In accordance with OSHA regulations on hazardous materials, harmful and irritating if in contact with skin, eyes and by inhalation. Observe safety information from MSDS sheets. Always wear proper protective suits, gloves and eye protection. In case of eye contact, immediately wash with large amounts of water and contact a medical expert. If spraying, always wear proper NIOSH approved respirators. Fresh air fed respirators are preferred. Do not eat, drink or smoke during application. Discharge, treatment or disposal is subject to federal, state, commonwealth, provincial and local laws. Since empty containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind or weld on or near this container.

Warranty / Disclaimer:

The technical data and other printed information furnished are true and accurate to the best of our knowledge. The products are warranted pursuant to acceptance of limited warranty. A copy of which can be obtained from Baril Coatings, which is the exclusive warranty with respect to the sale of this product. The modification of any component or uses not outlined in this bulletin nullifies the warranty unless advance written confirmation is obtained from Baril Coatings. No other warranties expressed or implied shall apply. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, shall be to supply replacement materials as set forth in the limited warranty.