

## FluoroThane TS TDS

FluoroThane TS is a low VOC super-hydrophobic coating formulated for easy shipping. FluoroThane provides over 140° water contact angle performance in extreme sun and rain. FluoroThane also significantly reduces snow and ice accumulation. When rain creates a water-film on satellite dishes it results in reduced or lost RF signal. On FluoroThane™ coated dishes, rain drops bead-up and roll-off resulting in reduced water and ice film build-up.

When rain repellency was measure by placing 100 µl drops of water on coated surfaces, contact angles greater than 140° and roll-off angles less than 1° were observed. When a thumb was pressed against the coating, twisted 90° and then tested with a 100 µl drop of water, the roll-off angle remained less than 1°. A weighted (30 grams) abrasive drafting eraser reciprocally moving at 1 cycle per second over 1 inch for 100 cycles does not damage the surface (100 µl water roll-off of 1°).

Color	Standard frosty white
Flammable solvents	Primer: no, water-based Topcoat: Provided dry, must be thinned/diluted with acetone
Storage temperature	20-30°C
Shelf life	1 year
Weatherability	1 - 5 years (varies based on environmental conditions)
Dielectric constant	3 at 100 MHz
Electrical resistivity	~2 tera ohms
Rapid aging, UV and rain chamber; exposure time versus water contact angle	-- 1 year (7 days in chamber): 144° -- 5 years (25 days in chamber): 143° -- 10 years (48 days in chamber): 143°
Taber abrasion	Super-hydrophobic after 10 cycles with CS10 wheel

### FluoroThane TS Application Instructions.

The temperature of the surface to be sprayed should be between 45°F and 95°F. Keep container at room temperature prior to use. All surfaces need to be dry and free from wax, grease and polishes for good adhesion.

First shake the can of PRIMER vigorously for 30 seconds. Hold the spray-gun vertically 8-10 inches from the surface. Depress the trigger button fully. Move the spray-gun evenly across the surface covering 6-10 inches per second. Apply half overlapping strokes 3-4 inches apart. Shake the reservoir for a few seconds every 60 seconds. Allow the PRIMER to dry for 10 minutes or more before applying the TOP COAT.

To the container of TOP-COAT add acetone (2636 grams per gallon or 666 grams per liter) and shake vigorously for 30 seconds. Hold the spray-gun vertically 8-10 inches from surface. Depress the button fully. Move the spray-gun evenly across the surface covering 6-10 inches per second. Apply half overlapping strokes 3-4 inches apart. Shake the reservoir for a few seconds every 60 seconds. Allow the coating to dry for over 24 hours before exposing to rain. For best long term performance avoid touching the coated surface.

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