

PSC 1050, 1052, 1053 TankCoat

PSC 1050, 1052, 1053 TankCoat is a proprietary, high performance acrylic elastomeric waterproofing membrane. It is liquid applied, specifically designed for protecting sprayed-in-place polyurethane foam coated structures from physical degradation through weathering and UV radiation. When applied as directed, at 12 to 14 mils dry film thickness per coat, PSC 1050, 1052, 1053 bridges minor surface imperfections, hairline cracks, providing outstanding durability and long lasting protection. It has superior aging characteristics eliminating the causes of ruptures, cracks and delaminating. It withstands substrate movement and accommodates rapid changes in the temperature while maintaining its flexibility and elongation properties.

PSC 1050, 1052, 1053 TankCoat is applied by independent, certified applicators who have millions of square foot installation experience which they bring to every job they undertake. The end result, not one single coating of an oil tank coated with PSC 1050, 1052, 1053 TankCoat has failed.

The molecular structure of PSC 1050, 1052, 1053 is perfectly adjusted to allow it to utilize its tensile strength and elongation properties for maximum, durable and long lasting protection of any polyurethane foam insulated structure in harsh environment.

PSC 1050, 1052, 1053 TankCoat is available in several standard colors as well as in fire resistant versions. Custom colors are available subject to minimum lead times and volumes.

Uses

- To protect urethane foam insulation of oil tanks from deterioration by ultraviolet radiation.
- To protect urethane foam insulation of oil tanks against leakage and moisture intrusion.

Advantages

- High performance, the best hiding power and coverage.
- Due to excellent tensile strength and elongation properties, reduces the thermal shock of the coating related to freeze/thaw conditions. Maintains flexibility through the year.
- Water and UV radiation resistant, fade resistant.
- Seamless, tough, rubbery coating seals and waterproofs hairline cracks.
- Inhibits the growth of mildew, fungus, moss and algae.
- Allows the substrate to breathe.
- Resists aggressive atmospheric conditions; exhaust gases, acid rain, airborne pollutants

PSC TankCoat is designed to

- Protect oil tanks or other structures insulated with urethane foam from deterioration caused by ingress of water, acid rain and airborne pollutants.
- Reduce maintenance costs associated with unprotected urethane foam insulation.
- Prolong the life of urethane foam insulation.
- Avoid costly oil tank and urethane foam deterioration.
- Protect insulation from leakage and moisture intrusion.
- Prevent scaling and spalling.

How does PSC TankCoat perform?

- It becomes an integral part of the urethane foam insulation.
- It is liquid applied to form a seamless, protective barrier.
- Optimum tensile strength and elongation properties allow it to expand and contract with freeze/thaw conditions while bridging hairline cracks in the substrate up to 1/16".
- System is sustainable for the life of substrate.

General data

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| - | Type | Acrylic elastomeric. |
| - | Solids | 55 to 65% (depending on color) |
| - | Coverage | 60 sq.ft./gallon @ 12 mils DFT |
| - | Dry film thickness | 12 to 14 mils DFT |
| - | Viscosity | 20,000 CPS @ 6 RPM |

-	VOC	Less than 30 g/L
-	Flash point	N/A
-	Thinner	Do not thin
-	Water vapor transmission	2.9 Perms (ASTM E96-80BW)
-	Tensile strength	130 psi @ WFT 13 (ASTM D412)
-	Elongation	310 % (ASTM D412)
-	Fire resistance rating (for FR)	10 (ASTM E84-01)
-	Finish	Flat
-	Surface temperature at application	Minimum 5 C (41 F) Maximum 35 C (95 F)
-	Number of coats	Two coats
-	Storage temperature	Min. 5 C (41 F) Max. 32 C (90 F)

Drying time

Wet film thickness (WFT) Relative humidity 50 %	Substrate temperature	Re-coat after	Full cure
	5 C (41 F)	3 hours	24 hours
	10 C (50 F)	1 hour	12 hours
	20 C (68 F)	30 minutes	6 hours

Surface preparation

New surface (shop application). Surfaces must be structurally sound, free of dirt, dust, oil, grease and loose particles. Remove any surface contaminants by power washing. Allow wet surfaces to dry prior to applying TankCoat.

Field applications and repairs. Remove all dirt, dust, oil, grease and deteriorated coatings by power washing. Rinse of any detergents. Allow wet surfaces to dry. Any cracks and holes should be treated as with new construction.

Application

Apply as received in the container. Do not add other paints or solvents. Do not thin. Stir the product thoroughly prior to use. Avoid entrapping excessive quantities of air when stirring. May be applied by airless spray, power roller or conventional roller. Do not apply when air and surface temperatures are below 5 C (41 F), nor in damp or rainy weather.

Apply a liberal coat and check application with a wet film gauge to ensure the minimum wet film thickness is obtained. Work well into possible crevices and holes for adequate penetration and sealing. Backroll in a downward motion to ensure a uniform finish with the stipple in one direction.

Power roller

Apply generously, monitoring application frequently with a film thickness gauge to ensure proper wet film thickness.

Conventional roller

Apply in two crosshatch coats at 90 degrees to each other, monitoring application frequently with a film thickness gauge to ensure proper wet film thickness. Keep roller saturated with material at all times. Allow first coat to dry three hours, or until it is no longer tacky (refer to drying time table), before applying a second coat. Finish off with dry roller in a downward motion to ensure a uniform finish with the stipple all in one direction.

Airless spray

Apply generously in a crosshatch pattern and backroll to achieve a pinhole free surface. Monitor application frequently with a film thickness gauge to ensure proper wet film thickness. Use equipment capable of maintaining 2,500 to 2700 psi at the tip. Orifice size: 0.019" (0.48mm) to 0.023" (0.58mm).

Thinning/Cleanup

Do not thin; thinning will reduce the sealing ability of this product. Never add other paints or solvents. Wash all equipment with warm detergent solution and rinse thoroughly with clean water. Spray equipment should be given a final rinse with mineral spirits to prevent rusting.

Use completely or dispose properly. Dry, empty containers may be recycled in a recycling program. Please return totes to PSC. Local disposal requirements vary; consult your sanitation department or local environmental agencies for more information on disposal options.

Environmental and safety information

Use only with adequate ventilation, do not breathe vapors or spray mist. Avoid contact with eyes and prolonged or repeated contact with skin. Wear eye protection and gloves during application. A dust/particulate respirator approved by NIOSH should be worn when spraying. Close container after each use.

First aid

If affected by inhalation of vapors or spray mist, move into fresh air. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and call a physician; for skin, wash thoroughly with soap and water. In case of ingestion – do not vomit, get medical help immediately.

In case of spill

Absorb with inert material and dispose off as specified under Thinning/Cleanup.

Shelf life

TankCoat has a shelf life of 3 months in an unopened container.

Limitations

- Do not use for immersion service.
- Do not use for applications below grade.

Packaging

5 USG pails

55 USG drums

244 USG totes (fill weight 1236 kg)

Warranty Disclaimer

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For orders and inquiries from Canada, US and Mexico, call toll free 1-866-793-3503, or fax your orders to PSC's customer service at 403-287-2766.

Polymer Science Corporation develops, manufactures, and distributes specialty chemicals, industrial and architectural coatings of highest quality.