

PARACOAT ROOF COATING



Commercial Product Data Sheet

Product Description

Paracoat Roof Coating is a high performance, multi-component, fast curing, and flexible PMMA roof coating resin designed for use over Siplast SBS-modified bitumen roof systems.

Product Uses

Paracoat Roof Coating is designed to protect existing smooth and granule-surfaced roof systems from the effects of weathering, ponding water and chemical attack. Paracoat should not be applied over roof systems applied in solvent-base adhesives unless the membrane/adhesive system is fully cured.

Colors

Paracoat Roof Coating is supplied in a standard color, White #9010. Paracoat in Gray #7035, and Sand #900318 are available on a special made-to-order basis, with a lead time of 21 days. Contact Siplast for availability of other colors.

Packaging

Paracoat Roof Coating is supplied in 20-kg (44 lb) resealable drums with locking rings.

Coverage Rates

Paracoat – consumption & coverage rates over smooth substrates:

Minimum consumption:	8 kg/sq (0.85 kg/m ²)
Typical coverage (20-kg pail):	231 square feet (if one 18-inch roller cover per pail is used)

Paracoat – consumption & coverage rates over #11 granule-surfaced systems:

Minimum consumption:	9 kg/sq (1.0 kg/m ²)
Typical coverage (20-kg pail):	175 - 206 square feet (depending on substrate texture) (if one 18-inch roller cover per pail is used)

Note that extremely rough or uneven substrates may require a heavier application. Net coverage will decrease if more than 1 roller cover per pail is used.

Application Conditions

Paracoat Roof Coating can be applied when the ambient temperature is between 32°F (0°C) and 95°F (35°C) and the substrate temperature is between 32°F (0°C) and 104°F (40°C). Care should be taken to ensure that the substrate is free of condensation since granule surfaces can hold trace amounts of moisture that are not easily detectable. Paracoat Roof Coating should not be applied if there is a threat of precipitation, condensation is present on the substrate, or the ambient temperature is within 5°F of the dew point.

Storage

Store Paracoat and Pro Products indoors in closed containers in a well-ventilated, cool, dry area away from heat, open flame, ignition sources, direct sunlight, oxidizing agents, strong acids, and strong alkalis. Resin products may autopolymerize at temperatures greater than 140°F (60°C). The shelf life for resin products is 6 months from ship date and is noted on each pail. Resin shelf life will be reduced if the products are stored at temperatures above 77°F (25°C). Pro Catalyst is extremely heat sensitive and proper storage is important to help ensure handling safety and to maintain product quality. To maintain product quality, the storage temperature of Pro Catalyst should not exceed 77°F (25°C). The reactivity/effectiveness of Pro Catalyst will decrease progressively when stored under high temperature conditions. Exposure of Pro Catalyst to a temperature of 122°F (50°C) or higher can result in self-accelerating decomposition.

Self-accelerating decomposition is signaled by the presence of bright white smoke, and can generate temperatures in excess of 500°F (260°C), depending on the environmental conditions and quantity of catalyst present. Such temperatures can be hazardous in the presence of flammable materials. Therefore, Pro Catalyst should never be subjected to conditions that can result in self-accelerating decomposition.

Handling

Do not smoke. Keep away from open fire, flame or any ignition source. Vapors may form explosive mixtures with air. Avoid skin and eye contact with this material. Avoid breathing fumes. Do not eat, drink, or smoke in the application area. Consult the Safety Data Sheet (SDS) for additional information pertaining to this product.

Personal Protection Equipment (PPE)

Workers must wear a long sleeved shirt with long pants and work boots. Workers must use only butyl rubber or nitrile gloves when mixing or applying this product. Safety goggles are required for eye protection.

Use local exhaust ventilation to maintain worker exposure below TLV. If the airborne concentration poses a health hazard, becomes irritating, or exceeds recommended limits, use a NIOSH approved respirator in accordance with OSHA Respirator Protection requirements under 29 CFR 1910.134. The specific type of respirator required will depend on the airborne concentration. Filtering face piece or dust mask is not acceptable for use with this product if TLV filtering levels have been exceeded. Review the SDS before transporting, handling, or using Paracoat.

Mixing & Catalyzing

If batch mixing, thoroughly mix the entire drum of resin for 2-3 minutes prior to pouring resin into a second container. Catalyze only the amount of resin that can be used within the anticipated pot life. Add pre-measured catalyst to the resin, stir for 2 minutes using a slow-speed mechanical agitator or mixing stick, and apply to the substrate. The amount of catalyst needed is based on the weight of the resin used, and varies with the ambient temperature as shown in the chart on the back of this sheet.

Pot Life

Paracoat Roof Coating pot life is approximately 15 minutes at 68°F (20°C). Pot life will be reduced if the resin is at higher temperatures. Pot life can be maximized by storing product under controlled conditions and ensuring that the resin is at the low range of the minimum storage temperature during/after the addition of catalyst and prior to application.

Set (Cure) Times

Minimum set (cure) times noted below are approximate, and may vary. The information provided is based on laboratory conditions, and is intended for use as a guideline only. Actual set (cure) times should be established in the field, based on actual field conditions.

Rain Proof at 68°F (20°C): Approximately 30 minutes
Stress Resistant at 68°F (20°C): Approximately 2 hours

Tool Cleaning

When work is interrupted or completed, tools must be thoroughly cleaned with Pro Prep before any catalyzed resin on the tools hardens.

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Pro Catalyst Mixing Chart

The amount of Pro Catalyst used with Paracoat Roof Coating varies from a minimum of 2% to 6% maximum by weight, depending upon the substrate temperature as indicated in the following table:

Resin Quantity	2% Catalyst 59°F to 104°F (15°C to 40°C)				4% Catalyst 41°F to 59°F (5°C to 15°C)				6% Catalyst 32°F to 41°F (0°C to 5°C)			
	g	kg	Tblsp.	0.1-kg Bags	g	kg	Tblsp.	0.1-kg Bags	g	kg	Tblsp.	0.1-kg Bags
1.0 kg (0.72 liter)	20	.02	2	n/a	40	.04	4	n/a	60	.06	6	n/a
5.0 kg (3.6 liters)	100	0.1	10	1	200	0.2	20	2	300	0.3	30	3
10.0 kg (7.2 liters)	200	0.2	20	2	400	0.4	40	4	600	0.6	60	6
20 kg (14.3 liters)	400	0.4	40	4	800	0.8	80	8	800	1.2	120	12

Paracoat

Physical and Mechanical Properties

Property	Values/Units	Test Method
Average dry film thickness (when applied at 1 kg/m ²)	30 mils	ASTM D 5147
Peak Load @ 73°F (minimum)	600 psi	ASTM D 412
Ultimate Elongation @ 73°F (minimum)	250%	ASTM D 412
Water Swelling (maximum)	3%	ASTM D 6083
Solar Reflectance (white #9010 - initial)	0.88	ASTM C 1549
Thermal Emittance (white #9010 - initial)	0.9	ASTM C 1371
Solar Reflectance Index (SRI) (white #9010 - initial)	111	CRRC Formula
Solar Reflectance (gray #7035 - initial)	0.39	ASTM C 1549
Thermal Emittance (gray #7035 - initial)	0.9	ASTM C 1371
Solar Reflectance Index (SRI) (gray #7035 - initial)	44	CRRC Formula
Solar Reflectance (sand #900318 - initial)	0.76	ASTM C 1549
Thermal Emittance (sand #90035 - initial)	0.91	ASTM C 1371
Solar Reflectance Index (SRI) (sand #90035 - initial)	95	CRRC Formula

Current copies of all Siplast Commercial Product Data Sheets are posted on the Siplast Web site at www.Siplast.com.