

TERAPRO VTS RESIN



Commercial Product Data Sheet

Product Description

Terapro VTS Resin is a high performance multi-component, fast curing, PMMA resin.

Product Uses

Terapro VTS Resin is the principal component of Terapro VTS Waterproofing and Surfacing Systems. This high performance, fast curing PMMA resin is designed for use in vehicular traffic areas. After it is catalyzed, Terapro VTS Resin must be mixed with Terapro Quartz Filler prior to application.

Color

Terapro VTS Resin is supplied in a gray color.

Packaging

Terapro VTS Resin is supplied in 10-kg (22-lb) resealable drums with locking rings.

Coverage Rates

Minimum consumption 4.5 kg/m² (0.418 kg/sf)
(Coverage rate for Terapro VTS Resin as combined with Terapro Quartz Filler.)

See recommendations for specific applications. Yields will vary depending upon the variant selected and the smoothness and absorbency of substrate.

Application Conditions

Terapro VTS Resin 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 122°F (50°C). In warm temperatures, the substrate should be shaded for up to one hour immediately prior to and during application as necessary to maintain the substrate at temperatures below 122°F (50°C).

Storage

Product shelf life is approximately 6 months from ship date. Shelf life will be reduced if product is stored at temperatures above 77°F (25°C). Store indoors in a closed container in a well-ventilated, cool, dry area away from heat, open fire, any ignition source, direct sunlight, oxidizing agents, strong acids, and strong alkalis. Do not store in temperatures below 32°F (0°C). Product may auto-polymerize at temperatures greater than 140°F (60°C).

Materials stored on the job site during application should be kept on a pallet in a shaded, well-ventilated area. In unshaded areas, materials should be covered with a white, reflective tarp in a manner that allows air circulation beneath the tarp.

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 Material Safety Data Sheet 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 glasses with side shields 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. Specific type of respirator will depend of the airborne concentration. Filtering face piece or dust mask is not acceptable for use with this product if TLV filtering levels have been exceeded.

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/filler mix and 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

Terapro VTS Resin pot life is approximately 15 minutes at 68°F (20°C). Because pot life is in large part dependent on ambient temperature, which constantly changes, actual pot life must be determined in the field. Pot life will be reduced at high temperatures.

Set Times at 68°F (20°C)

Minimum set 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 times and cure times should be established in the field, based on actual field conditions.

Rain Proof at 68°F (20°C): Approximately 30 minutes
Ready for Foot Traffic at 68°F (20°C): Approximately 60 minutes
Ready for Next Coat at 68°F (20°C): Approximately 2 hours

Tool Cleaning

When work is interrupted or completed, reusable 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 Terapro VTS Resin varies from a minimum of 2% to 6% maximum by weight, depending upon the ambient temperatures as indicated in the following table:

Resin Quantity	2% Catalyst 77°F to 95°F (25°C to 35°C)				4% Catalyst 41°F to 77°F (5°C to 25°C)				6% Catalyst 32°F to 41°F (0°C to 5°C)			
	g	kg	Tbsp.	0.1-kg Bags	g	kg	Tbsp.	0.1-kg Bags	g	kg	Tbsp.	0.1-kg Bags
5 kg (5.0 liter)	100	0.1	10	1	200	0.2	20	2	300	0.3	30	3
10.0 kg (10.0 liter)	200	0.2	20	2	400	0.4	40	4	600	0.6	60	6

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