

# TERAPRO VTS RESIN



## Commercial Product Data Sheet

### **Product Description**

Terapro VTS Resin is a high performance multi-component, fast curing, PMMA resin for use in Terapro and Terapro VTS Systems.

### **Product Uses**

Terapro VTS Resin is the waterproofing and wearing layer of unreinforced Terapro and Terapro VTS Systems and the wearing layer of reinforced Terapro and Terapro VTS Systems. Terapro VTS Resin must be mixed with Terapro Quartz Filler and Pro Catalyst prior to application.

### **Color**

Terapro VTS Resin is supplied in a translucent tan color.

### **Packaging**

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

### **Application and Coverage Rates**

Minimum application rate: 0.45 kg/sf (45 kg/sq) 4.8 kg/m<sup>2</sup>  
(Coverage rate for Terapro VTS Resin combined with Terapro Quartz Filler.)

Typical coverage per batch: 71 square feet

See Siplast Installer's Guides for specific applications.

### **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). Discontinue resin application when the ambient or substrate temperature is outside the ranges listed above. Provide adequate shade over the substrate area both prior to and during application as necessary to maintain substrate surface temperatures below 122° F (50° C).

### **Storage**

Product shelf life is 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.

### **Mixing & Catalyzing**

If batch mixing, thoroughly mix the entire drum of resin for 2-3 minutes prior to pouring resin into a second container. Thoroughly mix the resin and filler components at the proper ratio before adding catalyst. Catalyze only the amount of resin/filler mixture that can be used within the anticipated pot life. Add premeasured catalyst to the resin/filler mixture and stir for a minimum of 2 minutes using a slow-speed mechanical agitator prior to application. The amount of catalyst needed is based upon the weight of resin used, and varies with the ambient temperature as shown in the charts on the back of this sheet.

### **Pot Life**

Terapro VTS Resin 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 minimum storage temperature during/after the addition of catalyst and prior to application.

### **Set (Cure) Times at 68°F (20°C)**

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

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 or Pro Prep M before any catalyzed resin on the tools hardens.

### **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.

### **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. 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.

Consult the Safety Data Sheet (SDS) for additional information pertaining to this product.

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## Mass and Volume Data for Pro Catalyst Liquid

Pro Catalyst Liquid - net contents per unit			
2.5 kilograms	2.25 liters	2250 milliliters	10 cups

Product	Density (kg per liter)	Liquid Measure (liters per kg)	Liquid Measure (milliliters per kg)
Pro Catalyst Liquid	1.1 kilograms per liter	0.91 liters per kilogram	910 milliliters per kilogram

Pro Catalyst <u>Liquid</u> Mixing Chart Terapro VTS Resin/Filler (full batch with 10 kg of VTS Resin and full bag of VTS Filler)		
Ambient Temperature 77°F to 95°F (25°C to 35°C)	Ambient Temperature 41°F to 77°F (5°C to 25°C)	Ambient Temperature 32°F to 41°F (0°C to 5°C)
1 cup	2 Cups	3 cups
Substrate temperature range for application of Terapro VTS Resin is 32°F to 122°F (0°C to 50°C)		

## Mass and Volume Data for Pro Catalyst Powder

Pro Catalyst <u>Powder</u> Conversion Chart		
Box	Bags	Tablespoons
1 kg	0.1 kg	0.01 kg
10 (0.1 kg) bags	n/a	0.1 bags
100 Tablespoons	10 Tablespoons	n/a

Pro Catalyst <u>Powder</u> Mixing Chart Terapro VTS Resin/Filler (full batch with 10 kg of VTS Resin and full bag of VTS Filler)								
77°F to 95°F (25°C to 35°C)			41°F to 77°F (5° C to 25°C)			32°F to 41°F (0°C to 5°C)		
g	kg	0.1-kg Bags	g	kg	0.1-kg Bags	g	kg	0.1-kg Bags
200	0.2	2	400	0.4	4	600	0.6	6
Substrate temperature range for application of Terapro VTS Resin is 32°F to 122°F (0°C to 50°C)								

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