

## **Two-Component, Polyurethane Modified Methyl Methacrylate Shallow Repair Resin**

<b>DESCRIPTION:</b>	AlphaGuard PUMA SR is a two-component, polyurethane modified methyl methacrylate shallow repair resin for concrete substrates.
<b>BASIC USES:</b>	AlphaGuard PUMA SR is used to make shallow repairs, between 1/8" - 1" in depth, on concrete substrates prior to the installation of the AlphaGuard PUMA system.
<b>PACKAGING:</b>	Resin - 6 gallon (22.71 L) container Powder - 55 lbs (25 kg) bag
<b>GRADE:</b>	Brush / Roller / Squeegee
<b>POT LIFE:</b>	10 - 15 minutes. <i>*Pot life dependent on ambient, substrate, and product temperature and the amount of AlphaGuard PUMA Catalyst used.</i>
<b>STORAGE LIFE:</b>	<p>12 months in unopened containers. Recommended storage conditions are indoors in a ventilated, dry area removed from heat, open flame, ignition sources, and direct sunlight. Storage temperatures should range from 60-70°F (15-21°C) and must not exceed 110°F (43°C).</p> <p>On the job site, materials should remain on the pallet until use and be stored in a shaded, ventilated area. Materials should be covered with a light-colored, reflective tarp for protection against the elements. Allow for adequate air flow inside the pallets.</p> <p>Shelf life could be effected if the product is not stored properly.</p>
<b>APPLICATION:</b>	<p><b>Preparation:</b> Surface must be clean, dry, solid and free of dirt, grease, oil, algae, and any other debris/contaminants.</p> <p>Allow new concrete to cure for a minimum of 28 days and until moisture, RH, and compressive strength values reach an appropriate level. Concrete surfaces must be shot-blasted to a an ICRI 3-6 surface profile.</p> <p>Metal must be ground to a clean, bare, bright metal surface.</p> <p><b>Mixing:</b> Use a heavy duty power drill with Jiffy Mixer attachment. Cordless drills are not recommended and may not properly mix the materials. AlphaGuard PUMA SR Resin must be mixed to achieve a uniform distribution and appearance of the product. Once properly mixed, AlphaGuard PUMA SR Resin can be poured off in smaller quantities into a second container. AlphaGuard SR Powder should be added between 1:1 powder to resin ratio and 2:1 powder to resin ratio by weight to achieve the desired viscosity/consistency for various applications. Add the desired amount of AlphaGuard PUMA SR Powder into the resin and mix thoroughly until powder is completely dissolved. Then add the appropriate amount AlphaGuard PUMA Catalyst and mix thoroughly until powder catalyst is completely dissolved. Catalyze only the amount of AlphaGuard SR intended to be used within the expected pot life. The amount of AlphaGuard PUMA Catalyst required is based on the amount of AlphaGuard PUMA SR used and the ambient weather conditions (Refer to the mixing chart for proper mixing ratios.).</p> <p><b>Application:</b> Prime areas with AlphaGuard PUMA Primer - 107 and allow to cure. Apply AlphaGuard PUMA SR at the desired thickness between</p>

# AlphaGuard® PUMA SR

**APPLICATION:**  
(continued)

1/8" - 1" in depth. Allow AlphaGuard PUMA SR to cure prior to applying subsequent coats.

**MIXING CHART:**

**AG PUMA SR AMOUNT**

1/2 gal (3.92 lbs)  
1.89 L (1.77 kg)  
1 gal (7.84 lbs)  
3.78 L (3.55 kg)  
3 gal (23.52 lbs)  
11.34 L (10.66 kg)  
6 gal (47.04 lbs)  
22.68 L (21.33 kg)

**ALPHAGUARD PUMA CATALYST AMOUNTS BY TEMPERATURE RANGES**

70-95°F (21-35°C) 2% Catalyst	60-70°F (15-21°C) 4% Catalyst	40-60°F (5-15°C) 5% Catalyst	32-40°F (0-5°C) 6% Catalyst	< 32°F (< 0°C) 6% Catalyst + Accelerator
oz lbs g	oz lbs g	oz lbs g	oz lbs g	oz lbs g
2 0.09 40	3 0.18 80	4 0.22 100	5 0.26 120	5 0.26 120
3 0.18 80	6 0.35 160	8 0.44 200	10 0.53 240	10 0.53 240
10 0.53 240	19 1.06 480	24 1.32 600	29 1.59 720	29 1.59 720
19 1.06 480	38 2.12 960	48 2.65 1,200	58 3.17 1,440	58 3.17 1,440

**ACCEPTABLE SURFACES/SUBSTRATES:**

Smooth BUR	Gravel BUR	Concrete	Foam	Modified Bitumen	Metal	Single Ply	SPUF	Walls
●		●		●	●			●

**COVERAGE RATE:**

Thickness	Mil Thickness	Amount
1/8"	125 wet mils	Approx. 8 gals / 100 sq. ft.
1/4"	250 wet mils	Approx. 16 gals / 100 sq. ft.
1/2"	500 wet mils	Approx. 32 gals / 100 sq. ft.
3/4"	750 wet mils	Approx. 47 gals / 100 sq. ft.
1"	1,000 wet mils	Approx. 63 gals / 100 sq. ft.

**CLEAN UP:**

Clean tools immediate after use with AlphaGuard PUMA Cleaner.

**LIMITATIONS:**

- Not for use over expanded polystyrene, extruded polystyrene, plywood, tongue and groove decks, wood decks, poured in place gypsum, lightweight insulating concrete, lightweight structural concrete, cementitious wood fiber decks, coal tar pitch, gravel surfaced BUR, corrugated metal roof systems, and SPUF roofing substrates.
- Do not apply in falling precipitation or when precipitation is imminent.
- Only apply when ambient temperature is -20°F - 95°F (-28°C - 35°C).

**PRECAUTIONS:**

Use Tremco AlphaGuard PUMA SR with adequate ventilation. If the product is applied in enclosed areas without natural ventilation, forced ventilation must be arranged. Avoid strong concentration of vapor as well as direct contact with skin or eyes. Users must read container labels and Safety Data Sheets for health and safety precautions prior to use.

**MAINTENANCE:**

Your local Tremco Roofing Representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventative maintenance are all part of a sound roof program.

**TECHNICAL SERVICES:**

Your local Tremco Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications. The services of the Tremco Research Center, which has earned a unique reputation in weatherproofing technology, complement and extend the services of the Tremco Technical Service Staff.



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