

# THERMO SHADAN PU

(TMS PU)

THERMO SHADAN PU is a polyurethane finish based on a combination of acrylic polyol and non-yellowing type polyisocyanate with the following advantages;

- (1) High solar reflective properties reduce heat buildup of the coated surfaces,
- (2) Good weather resistance (gloss and colour retention),
- (3) Good adhesion,
- (4) Good mechanical properties such as impact and abrasion resistance, good coating film hardness, and
- (5) Excellent oil and chemical resistance.

## TECHNICAL DATA

<b>Type</b>	Polyurethane high solar reflective coating				
<b>Recommended Use</b>	For use on external superstructure, decks and topside to reduce heat buildup				
<b>Information</b>	Mixing Ratio	: Base : Hardener = 80 : 20 [by volume]			
	Color	: Gray, Green			
	Flash Point	: Base = 23, Hardener = 29.5 [°C]			
	Density	: 1.26 [g/mL]			
	Volume solids (VS)	: 49 (+/-2) [volume %]			
	VOC	: 456 [g/L]			
	Coverage (Theoretical)	: 0.102 [L/m <sup>2</sup> ]			
	Film Thickness	: WET 102 [microns] DRY 50 [microns]			
(DFT 50microns)					
		5 °C	10 °C	20 °C	30 °C
Drying Time	Set-to-touch	50mins.	30mins.	20mins.	10mins.
	Hard Dry	12hrs.	8hrs.	6hrs.	4hrs.
Painting Interval	Min	8hrs.	6hrs.	4hrs.	2hrs.
	Max *	*	*	*	*
	Pot Life	24hrs.	20hrs.	16hrs.	8hrs.
<b>Condition of Application</b>	Method of Application	: Airless spray, Brush, Roller			
	Weather	: Temperature: Minimum 5 °C, Humidity: Maximum 85 %RH			
	For Airless Spray	: Viscosity : (Fc#4) 25 - 35 [sec] Tip No. : (GRACO) 515, 615, 715, 813 Paint Output Pressure: 11.7 - 14.7 [MPa] Spray Speed : 80 - 100 [cm/sec]			
	Thinner	: URETHANE THINNER A Thinning: 0 - 15 % by volume			
	Preceding Coats	: THERMO SHADAN UNDERCOAT EP			
	Subsequent Coats	: -			

## THERMO SHADAN PU (Jun.2023rev )

<i>Packaging</i>	Two pack product
<i>Notes</i>	<ol style="list-style-type: none"><li>1. Prior to use, consult the Safety Data Sheet (SDS) and follow the health and safety instructions. Precautionary notice is stated on the SDS and on the product label.</li><li>2. * Please kindly refer to the technical specification.</li><li>3. Please handle with care, Hardener may reduce the performance when in contact with moisture.</li><li>4. Store in tightly sealed containers in dry, cool conditions away from direct sunlight. This product shall be stored away from moisture. The water on top of the container shall be avoided.</li><li>5. Ventilation shall be required during and after the coating application until the applied paint is cured.</li><li>6. Agitate the Base component thoroughly with a power agitator, then pour the Hardener and stir the mixture until homogeneous. If thinning is necessary for workability and/or for a good coating appearance, add the recommended thinner within the maximum thinning ratio as specified and mix thoroughly before use.</li><li>7. Excessive thinning will reduce sagging resistance and may affect coating performance.</li><li>8. The Hardener once opened is recommended to be used as soon as possible. When storing, make sure to tightly seal the container and store in a cool and dark place.</li><li>9. Density, VS and VOC contents are calculated from typical formulation without thinning. Values may vary depending on the various factors (e.g., manufacturing batches, colour, local requirements, etc.).</li><li>10. For technical specification, application conditions, and any other information, please consult with your local CMP office.</li></ol>

This product should be used only by professional applicators. Consult the current Chugoku Marine Paints Safety Data Sheets. Follow all local or national health, safety and environmental regulations. Observe all safety labels on packaging and containers. Take precautions against possible risks of fire or explosions as well as protection of the environment. Apply only at ventilated areas. Handle with care.

This data sheet contains the best and latest of our knowledge on the date of issue on our laboratory test in Japan and practical application experience, and subject to change without notice. Since the paints are used under unexpected circumstances in some cases, guarantee can not be given except on the quality of those paints themselves.