ENERGY SAVER

Urethane(S) intermediate/top coat

ENERGY SAVER URETHANE(S) is based on acrylic polyol- isocyanate resin, and ceramic/infrared reflect pigments. This paint has excellent tough film good adhesion, excellent appearance, durability and chemical resistance. Sunlight reaching the surface of the paint layer is reflected to prevent the penetration of heat. And either the heat absorbed into the paint layer is extinguished by ceramic particles or radiate to the outside at low height. Thus wielding further heat blocking effects. thus maintaining comfortable residential enveroments and constant indoor temperatures and consequently reducing room heating/cooling cost considerably.

Usage	Factory, Warehouse, House, Building of roof and exterior wall Gas and Granary storage tank Plants Necessary Place of heat blocking / heat insulation					
	4. Necessary Flace of	Specifica				
Paint type	Acrylic Urethane	•				
Drying time	Category 5°C		20℃ 30℃			
	Set-to-touch	1 hour	30	minutes	20 minutes	
	Dry-through	8 hours		hours	4 hours	
	Over-coat (Min.)	12 hours		3 hours	6 hours	
	Pot life 6 hours Above pot life and follow-up coating time have been measure construction site.			5 hours 3 hours ed under laboratory conditions and may vary depending on the		
Thinner	DR-700			> Brush.roll	⊳ Brush,roller: above 10%	
Specific gravity	Appr. 1.0454	Dilution ratio		Deliasification above 15% ⇒ Air spray: above 15%		
Theoretical Coverage	5.06m²/L (DFT 100µm)	S	Solid volume ratio			
Color	White	Mixing ratio Base(A)/Hardener(B)=5/1 (Weigh		rdener(B)=5/1 (Weight ratio)		
	Product	Properties (Phys	sical Property	Data)		
CHARACTERISTIC -	Excellent Solar Heat Reflectance					
	Excellent heat insulation effect					
	Prevent rust on steel, Absorbing noises					
	Excellent durability					
	Heat conduction is very low					
	CCRC approved, TSR: 0.82 / TE: 0.87 (White)					
	* CCRC is Cool roof rating					
	Certe is coor roor rating t	How to	llsρ			
	1 The substrate should be			than 28 days at 2		
Surface	 The substrate should be cured sufficiently. (It should cure for more than 28 days at 20°C.) Laitance, dust, oil, and other foreign matters should be removed completely from substrate surface. 					
treatment	Under coat shall be dried.					
	The appropriate pH value of the substrate is below 9, and the moisture content should be less than 8%.					
Coating Method	Primer 1. Primer					
	① Once the surface preparation is completed, mix the resin of epoxy primer DCE-137 and hardener sufficiently at a 4.1 weight ratio and apply the paint one time with the brush or roller or through spray coating until the dry film is a					
	thick as about 30 Jm. * The primer below is recommended depending on the surface of the material. Surface of concrete: DCE-137 Surface of the control of th					
	of tin(galvanized steel) sheet: DNU-800 Surface of steel: DNY-130 2. Intermediate Coating					
	 Interniculate Coaring At least 18 hours after the primary coating based on a temperature of 20°C, apply the paint three or four times with brush or roller or through spray coating until the dry film is as thick as 200µm. 					
	② At this time, the paint should be mixed with the designated DR-700 thinner diluted to less than 10% if coated with brush and roller and less than 15% if coated through spray coating.					
	③ The intermediate coating that is repeated twice should be carried out at least 8 hours at 20℃ after the top coating was applied once.					
	3. Top Coat					
	① At least 8 hours after the intermediate coating at 20°C, apply the ENERGY SAVER URETHANE CLEAR with brush or roller or through spray coating until the dry film is as thick as 60µm.					
	② At this time, the paint should be mixed with the designated DR-700 thinner diluted to less than 10% if coated with brush and roller and less than 15% if coatedthrough spray coating.					
	1. If painted below 5°C, the film will not be formed evenly, and a crack may result. Thus, avoid painting below that					
	temperature.					
Avoid excessive dilution(may weaken the adhesion). Do not apply paint before the substrate is dried completely (wat substrate decreases the adhesion strange).					the adhesion strongth of	
	Do not apply paint before the substrate is dried completely (wet substrate decreases the adhesion strength of paint).					
	party.					



13. This product should be stored at temperature between approx. 10°C and 30°C.

Keep combustible materials away and ventilate appropriately while painting.
 Do not use hardened paint whose expiration date has lapsed.

4. The paint should be kept at 5°C to 35°C in sealed state indoors.

mixer according to the instructed mixing ratio before use.

12. Do not use mixed paint after pot-life.

Note

5. The paint should be stirred sufficiently to make a uniform coating mixture before use

7. Toner should not be used with ENERGY SAVER URETHANE(S) because it decreases the insulation.

11. This product should not be applied under the condition of lower than 5°C and over 85% RH.

6. If two-component (two-pack) is used, the resin and hardener should be mixed sufficiently with the high-speed

8. Contact our Technology Department if spray coating is difficult or when you are painting in a narrow place such as