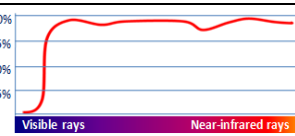


Planet Supra Thermal Barrier Paint

Technical Data Sheet & JIS Certification Summary

Description: Water-based Eco-friendly Thermal Barrier Paint. Reflects heat back to its source, improves insulation.

Active components: Ultra-fine nano hollow silica beads, nano Titanium dioxide, Acryl silicon emulsion

Item	Reference	Value	Standard
Solar reflectance	Near-infrared rays area	94.6%	
	All wavelength band area	92.3%	
	Visible ray area	90.4%	
	Thermal emittance	93.6%	
JIS R 3106:1998			

Carbon Offset	CO2 emission reduction certificate	1 Ton of CO ₂ for every 10 cans used	Carbon Offset Japan (COJ)
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Properties	Formaldehyde Diffusion Test	F☆☆☆☆	JIS A 1901:2003
	Volatile Organic Compounds (VOC)	Not detectable	JIS A 1901:2003
	Mold resistance test	Didn't get mold by culture examination	JIS Z 2911:2000
	Humidity Resistance Test	240 hours	JIS K 5600:2008
	Accelerated Weathering	Pass	JIS K 5400:1990
			JIS Z 8730:2002
	Crazing resistance du to initial drying	No crazing	JIS A 6909:2003
	Low temperature stability	No lump, no segregation or separation	
	Adhesion Strength Test	Ordinary State 2.8 (Standard more than 0.5)	
		Flooded Condition 2.1 (Standard more than 0.3)	
	Resistance to repeated warming and cooling actions	No remarkable deformations	
	Permeability A-method Test (mm)	1.3	
	Washability	No let-go, no abrasion	
	Resistibility Test for Alkalescency A-method	No liquate out caused by softening	
	Impact resistance	Free from crazing, deformation and peeling	
Resistibility Test for Anti weathering ability A-method	Pass		
Flexibility	Remarkable, can be painted on cloth		

Safety	Non-inflammable (water-based)	cf. MSDS
	No flashpoint, safe to transport by air	cf. MSDS
	No toxic agent	cf. MSDS
	UNDG classification	None
	UNDG number	None

Application Mix with 5 to 10% distilled water, apply like normal paint with brush, roller, spray gun, ...

Coverage per can

For optimum heat reflectance on surfaces exposed to sunlight: 2 layers (200 microns total)
 Minimum coating for insulation of hot surfaces: 3 layers (300 microns total)
 Coverage with 2 layers: 40 square meters
 Coverage with 3 layers: 25 square meters
 Weight per square meter at 10% dilution ratio, applied with brush: 0.125 Kg per layer
 Maximum surface temperature tolerance: 160°C
 Most surfaces can be painted, no primer is needed: concrete, metal, wood, slate, cloth ...

Drying and hardening time at ambient temperature

Dry to touch: 10 to 30 minutes
 Time between coats: 10 to 30 minutes
 Half-curing time: 8 - 12 hours
 Full curing time: 48 hours

Packaging Metallic cans, 1 can = 10 Kg / 15.4L / 4 Gal.

Colors 23 colors available on catalog, custom-made colors are available providing minimum order quantity of 48 cans (1 pallet) is met.

Paint can be mixed with up to 10% water-based colorants without impact on thermal barrier performance.

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