

ENERGY SAVER COOL-ROAD



ENERGY SAVER COOL-ROAD is a heat shielding paint composed of acrylic oligomer and MMA monomer. By applying infrared reflection special pigment, it prevents the increase of the asphalt road temperature and mitigates the urban heat island phenomenon by emitting ground heat. Moreover, as the drying time is less than 1 hour regardless of the outside temperature, it is possible to minimize traffic control, and excellent film properties, slip resistance, and visibility can be obtained.

Usage

Crossroads, sharp turns in roads, bus stops, trails

Specification

Paint type	Acrylic system / BPO (Two-Component)				
Use ratio of hardener and catalyst	Surface temperature(°C)	Hardener(g)	Surface temperature(°C)	Hardener(g) Catalyst(g)	
	30	100	-30	350 300	
	20	200	-20		250
	10	250	-10		200
	5	300	-5		150
			0		100
	The amount of hardener above is different depending on the temperature. Please use the recommended amount of hardener to the base.				
Thinner	Not applicable		Dilution ratio	▷ No dilution	
Specific gravity	Approx. 1.7 (Gray)				
Theoretical Coverage	5.1 kg/m ² (Based on 3mm)		Solid volume ratio	99±1 %	
Color	Gray, other ordered colors		Thickness of dried film	3 mm	
Reflectance(TSR/L*)	Over 70%		Brightness(L*)	L* < 60	
Shelf life	6 months		Packaging unit	20 kg (Hardener separate)	
Amount of silica used	Colored silica (No. 3) base weight ratio 20%		Pot life	Less than 10 minutes	

How to Use

Surface treatment	<ol style="list-style-type: none"> 1. Cure concrete for at least 28 days at a temperature of 21°C and a relative humidity of 50%. 2. Completely remove the oil, moisture, sand, dust, laitance and other foreign matter from the surface and maintain surface smoothness. 3. For high-strength concrete (260kg/㎠ or higher), blasting treatment should be carried out.
Coating Conditions	<ol style="list-style-type: none"> 1. Atmosphere Temperature: 5~35°C, Surface Temperature: 40°C or below, Relative Humidity: 80% or less 2. Moisture content in the concrete: 6% or less
Coating Method	<ol style="list-style-type: none"> 1. The recommended amount of silica should be used for proper slip resistance. 2. Create an embossed pattern by roller coating immediately after coating the surface smoothly with a sawtooth scraper. <p>Appropriate construction specifications</p> <p>▷ Primer : NOROO WAY C-100(MMA) PRIMER (use a base made of concrete)</p> <p>▷ Intermediate : ENERGY SAVER COOL-ROAD WHITE</p> <p>▷ Top coat : ENERGY SAVER COOL-ROAD GRAY</p>