

**Heat shield coating
for roofs and walls**
JIS K 5675
High solar reflectance coating for roofs Class1 LG grade

Procool Si
Lineage Acrylic silicone resin

Coating condition

Way of coating	Brush, roller, airless spray	
Dilution ratio	0–5%	
Standard coating amount (kg / m ² / times)	0.15kg / m ² / times	
Standard film thickness	Intermediate coat	wet 100 μm dry 50 μm
	Top coat	wet 100 μm dry 50 μm

*Note: The above values are the standard values of the usage amount required for coating work.

The standard coating weight depends on individual conditions.

Coating interval

Temp.		23°C
Item	min.	3 hours
	max.	7 days

Coating properties

	Items	Contents
1	Packaging	14kg
2	Mixing ratio	1 liquid (no dilution)
3	Colour	Standard color (all 22 colors)
4	Gloss	Mat (approx. 50 % gloss)
5	Odor	A slight acrylic odor
6	Finish	Smooth
7	Specific gravity / density	1.05–1.35 (g/cm ³ /23°C)
8	Solar reflectance <Near infrared region> (780~2500nm)	86.80%
9	Thermal conductivity	0.39W/m·K
10	Solvent specific gravity	—
11	Heated residue	38–42 (%)
12	Viscosity	2,800 (mPa·s/23°C)
13	Display of deleterious substance	—
14	Displayed harmful substances on labor law	Ethylene glycol, amorphous silica, titanium oxide, ferric oxide, synthetic amorphous silica, phthalocyanine blue, chlorinated phthalocyanine line
15	Type of organic solvent used	—
16	Dangerous Goods Classification by the Fire Service Law	Not applicable
17	Classification by ingredients of curing agent	—

*Note: The above values indicate standards and there may be slight variations.

Characteristic

- ①It is a water-based paint with less VOC (volatile organic compound) ingredients and odor, and is environmentally friendly paint.
- ②Due to the functionality of special nanoceramics, it exerts high heat shielding and high albedo effect.
- ③The coating has smoothness and a beautiful finish.
- ④It has good elongation, enables thin films, and is excellent in workability.
- ⑤We improved the durability by improving the resin ratio.
- ⑥We have received various environmental demonstrations and certifications both in Japan and overseas such as JIS certification, Eco Mark certification · Carbon offset · ETV demonstration etc.

Main application materials

Steel plate, tin, corrugated slate, ALC etc.

Adopted under coat

Weak-solvent Primer EPO, AquaSabinon, Ethical Primer J, Weak-solvent Cool Sealer, Water-based White Sealer, Softwall, Dannetsu Softwall, Multiprimer EP, Dannetsu PowerRoof, BariStop

Usage notes

- 1) In principle, please use it on a non-pedestrian roof. Stir the paint thoroughly before use.
- 2) Thoroughly dry the substrate surface. Insufficient adjustment can cause rust and poor adhesion, so take extra care.
- 3) When apply on a sealing material, contamination, poor adhesion, or cracks in the paint film may occur depending on the type of sealing material.
- 4) Provide sufficient ventilation when handling, coating and after application.
- 5) The gloss may look different depending on .shape of substrate, thickness, color, number of coatings, and dilution ratio.
- 6) There is a tendency for uneven gloss to occur at the joints during brush and roller coating. After trial coating, please complete this work.
In the case of spray coating, take care to prevent scattering to the surroundings and cure.
- 7) If low temperature (5°C or less), humid (85% or more), or condensation is expected, avoid coating during the drying process, which may cause defects.
- 8) Avoid construction if there is a risk of rain, condensation, snowfall, or strong winds. (May cause problems such as blistering, peeling, and whitening of the coating film.)
- 9) Strictly adhere to the required amount and interval time according to the standard construction specifications.
For products that require dilution, use the specified diluent and dilute uniformly in the appropriate amount and method.
- 10) Do not use the diluted product after long-term storage and use asap once diluted.
- 11) Store materials in a cool, dark place away from direct sunlight, high temperature and high humidity. Avoid storage below 0 °C.
- 12) Dry it sufficiently by sunset. Please note that if the impression is not enough, it may cause dripping, unevenness, peeling, etc.
- 13) Wash the equipment after painting, such as brushes, rollers, and airless painting machines, as soon as possible.
- 14) When performing the work, wear appropriate protective masks, protective gloves, protective glasses, and protective clothing.
- 15) Refer to the SDS (Safety Data Sheet) for details of other general precautions regarding the handling of paint.

※Please note that the contents of this product manual may be changed without notice.