YAKEDOBOY

PRODUCT DATASHEET

Characteristics

Yakedoboy is a single component water-borne acrylic silicone coating incorporating proprietary ceramic micro-spheres additives. Conventional insulation paints are time consuming to apply, are expensive and provide heat insulation only when applied at over 2 mm thickness minimum. Thick coatings tend to deteriorate easily and crack over a period of time thereby reducing insulation effe. Yakedoboy resolves all these problems and imparts excellent heat and cold insulation to any surface. A few salients features are :

- Self-priming coating that adheres to all kinds of metal and concrete surfaces
- Increases energy efficiency in refrigeration / oven equipment and facilities
- Prevents second degree burns
- Drastically reduces the rate of heat transfer on the surface
- Anti-corrosion property combined with anti-condensation
- Rapid and easy workability saves time and reduces production downtime

Application Procedure

Surfaces compatible

- Metal MS, Galvanized steel, Aluminium
- Concrete
- Ceramic tiles (needs primer)
- Corrugated sheets (needs primer)
- PVC sheets (needs primer)

Surface Preparation

- Target SSPC-SP2 (hand tools such as wire brush, sandpaper, scrub pad, etc) or SP3 (machine tools such as wire cup grinders, needle grinder, etc) surface preparation to remove all surface contaminants including dirt, oil, grease, seawater, alkalis and acids by solvent cleaning. For larger areas, high pressure water jet maybe used.
- It is best to remove all surface rust as much as possible. If applying on highly corroded surfaces in a corrosive environment, then an epoxy primer such as SomayQ EP039 or equivalent is recommended. Ensure that the primer can withstand constant temperature of up to 150 degC and is compatible with Yakedoboy.
- Ensure that the surface is at room temperature before start of application to ensure optimum curing. Heating / cooling equipment shut down required during application.

Paint preparation

- Stir the can vigorously from the bottom using an electric stirrer / paint mixer for a
 minimum of 10~15 minutes until the paint is of uniform viscosity and is free flowing
 i.e. lump free. Ensure that no solid particles are settled down or floating at the bottom
 of the can.
- While applying the paint, make sure to stir the can slightly with each stroke.

Application

- Remove any excess lint from the roller using duct tape
- Use small brush (1 inch) to paint corners and edges
- Use roller brush (2 inch and 4 inch) to paint large flat areas (For metal surfaces)
- Apply the first coat considering 150~200 gm / Sq.Mtr. i.e. 5~5.5 Sq.Mtr. per KG coverage. Allow to air dry for 2~3 hours until the surface turns non-tacky.
- Apply the second coat considering 150~200 gm/ Sq.Mtr. i.e. 5~5.5 Sq.Mtr per KG coverage. Allow to cure completely for 24 hours.

(For ceramic / polymer surfaces)

- Apply a Polyamide Epoxy primer (SomayQ EP039 or equivalent) as per the recommended procedure.
- Apply the first coat considering 150~200 gm / Sq.Mtr. i.e. 5~5.5 Sq.Mtr. per KG coverage. Allow to air dry for 2~3 hours until the surface turns non-tacky.
- Apply the second coat considering 150~200 gm/ Sq.Mtr. i.e. 5~5.5 Sq.Mtr per KG coverage. Allow to cure completely for 24 hours at 25 degC.
- (For additional heat insulation / heat retention)

- Multiple layers of Yakedoboy can be applied up to $4\sim5$ coats. More the number of layers, better is the insulation observed. Overcoating interval of $2\sim3$ hours to be observed followed by 24 hours curing time for final coat.

Precautions

- Since Yakedoboy is water based, the drying time and curing time rely on atmospheric conditions. Do not apply during heavy monsoons or overcast conditions. Ambient temperature should not be less than 10 degC and ambient humidity should not be more than 75%.
- In areas prone to heavy condensation at night, avoid painting after 3 PM in areas with cold ambient temperature below 20 degC.
- Once a can is opened and partially consumed (to be reused later), ensure to close the lid tightly and store it below 40 degC. Consume the remainder paint within maximum 2 months of opening the can.
- Yakedoboy consists of heavy solid content as well as light solid content meaning that some components may settle down at the bottom while some will float at the surface of the can. Ensure constant stirring at intermittent intervals.
- If the paint has been stored for a long time, there is a chance of water reduction. Add demineralised, TDS free water max 5% by weight to adjust the paint viscosity and make it easily flowable. Ensure strictly not to add excess water to avoid paint run-off.
- Ensure proper PPE during paint application





GENERAL PROPERTIES

Color	White, Black (can be customised for MOQ 1 MT)
Coverage	0.2KG/SQM x 2~ 3 coats i.e. 20~30 SQM per can
Packing	16 L cans (11.68 KG)
Film thickness (Dft)	100~150 microns per coat
Temperature range	Minus 50 degC to 150 degC
Curing time @20 degC	24~36 hours
Overcoat interval @20 degC	2~3 hours
Viscosity @20 degC	3000 cps +/-300 cps
% solids	50 +/- 3

COATING PROPERTIES

Property	Test Method	Typical value
Adhesion Strength	ASTM D3359	5A
Flexural strength	ASTM D790 (5mm bend)	No damage
Buckling Resistance	Dupont style 1/2 inch 500 Gm 50 cm	No damage
Impact resistance	90 deg Slab test at minus 20 degC	No damage
Water resistance	Submerged in water for 14 days @50degC	No damage
Salt water resistance	5% NaCl sprayed @30 degC	1,000 hours
Weather resistance	Sunshine weatherometer @50 degC	2,000 hours

MANUFACTURER : OZONESAVE CO., LTD, HADANO CITY, KANAGAWA, JAPAN DISTRIBUTOR IN INDIA : SRISHTI SPECIALITY CHEMICALS PVT LTD, NAVI MUMBAI

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