

Technical Data



Kansai Paint Protective Coatings

THERMOTECT SC

GENERIC TYPE	Heat Resistant Paint
DESCRIPTION	A single component, heat resisting paint based on a moisture curing silicone resin and aluminium powder
RECOMMENDED USE	Steel structure protection for high temperature service
FEATURES	- Excellent heat resistance (Up to 540°C) - Lead and chromium free - Good weather resistance - Good applicability - Pre-heating is not required.
PHYSICAL PROPERTIES	
Colour	Silver
Finish	Semi-gloss
Volume Solids	45 %
Typical Thickness	Dry : 25 microns / coat
Theoretical Coverage	18.0 m ² /L at 25 microns DFT
	*Practical coverage vary depending on loss factors.
Flash Point	25°C
Specific Gravity	1.19 g/cm ³
VOC	476 g/L
Temperature Resistance	Non-continuous : 600°C, Continuous : 540°C
	*These numerical values are subject to normal manufacturing tolerances, colours and testing variances.
SURFACE PREPARATION	- All surfaces to be coated should be completely clean, dry and free from contamination. Surface preparation method shall be in accordance with ISO 8504: 2000. - Remove salt and other water-soluble contaminants by fresh water. - Remove oil and grease with suitable detergent or solvent (SSPC-SP-1). - Remove rust, mill scale and other loose material completely by abrasive blasting (ISO 8501-1:2007 Sa 2 1/2 or SSPC SP-10). - A surface profile of 25-50 microns is recommended.
APPLICATION	
Application Conditions	Ambient temperature shall be above 5°C and relative humidity shall be below 85%. Surface temperature shall be a minimum of 3°C above dew point. Adequate ventilation shall be provided in confined spaces to ensure proper drying.
Mixing	Stir paint in container with power agitator well before using.
Mixing ratio	—
Induction Time	Not required
Application Method	Airless spray Thinner : Enamel Thinner 200 (0-10% by weight) Nozzle pressure: Not less than 10MPa Nozzle Tip : No.163-415~617 Brush 0-5% by weight, Roller 0-20% by weight * Brush coating is recommended than roller. * Film thickness is managed with 50 microns wet. * Maximum thickness which can be applied without causing subsequent film blistering on heating is total 100 microns.(50 microns in a single coat)
	*Too much thinning results sagging and slower cure.

Clean Up	Clean all the equipment with thinner immediately after use.		
Pot Life	10 °C	20 °C	30 °C
	–	–	–
	*Use all mixed paint within pot life.		
Drying Time	10 °C	20 °C	30 °C
Surface dry	2 hour(s)	1 hour(s)	1 hour(s)
Touch dry	4 hour(s)	3 hour(s)	3 hour(s)
	*Drying time may vary depending on film thickness, ventilation, humidity, undercoat paint condition etc.		
Overcoating Interval	10 °C	20 °C	30 °C
Minimum	16 hour(s)	16 hour(s)	12 hour(s)
Maximum	7 day(s)	7 day(s)	7 day(s)
	*The overcoating intervals are based on overcoating with same or same type of paint.		
Typical undercoat	Zinctect 1500A.		
Typical topcoat	–		

SAFETY PRECAUTIONS

Detail information is given on Safety Data Sheet (SDS). Avoid inhalation of spray mist or vapour. Avoid skin and eye contact. Paint contacted with skin should be immediately removed with water and/or suitable cleanser. Eyes should be flushed with water and seek immediate medical attention. Since this product contains flammable solvents, keep away from sparks and open flames. Application and handling of this product should be in compliance with relevant national regulations.

STORAGE

Store in dry, cool condition and away from sources of heat and ignition. Containers must be kept tightly closed to prevent skin from happening. Remove the skin, once it happens. Film performance is not be affected. Store conditions shall be in accordance with national regulations.

SHELF LIFE

12 months from date of production

GENERAL REMARKS

- Although direct two coats application on to steel surface is possible for in door service, blast cleaning to steel surface is required.
- Make sure to protect painted film from dust in case drying time under normal temperature becomes long before high temperature service starts.
- It is not suitable for strong steam, acid and alkali environment due to poor resistance.
- When over coated, bleeding of undercoat may be observed. The bleeding would stop when second coat of over coat is applied or by spray application.
- Not suitable for exposure in acid or alkaline environments.
- Recommend to apply Zinctect 1500A when this product is used in high corrosively category under 400°C. Follow the instruction sheet when Zinctect 1500A is applied.
- Apply mist-coat twice on Zinctect 1500A to prevent babble happening. Apply 2nd mist in a few minutes after 1st mist-coat.
- Control the thickness by wet film gauge to prevent too much thickness which causes blister during forced dry. Avoid apply on TermoNS2 series.

*If any inquiries, please consult Kansai Paint representative for further information.

DISCLAIMER : The information given on this sheet is to the best of our knowledge and accuracy at the time of issuing. Since conditions of use are beyond the manufacturer's control, information contained herein is without warranty, implied or otherwise, and the suitability of the material for the use contemplated is the sole responsibility of the buyer. The information contained on this data sheet is subject to modification at any time due to our policy of modification and product development.