Technical Data

THERMOTECT EP

Kansai Paint Protective Coatings

GENERIC TYPE Phenolic epoxy

DESCRIPTION A heat resistant paint based on phenolic epoxy for preventing CUI (Corrosion Under Insulation)

RECOMMENDED USE An Insulated and non insulated steel structure for high temperature services

FEATURES
- Excellent heat resistance up to 200℃
- Suitable for insulated and non insulated surface
- Highbuild coatings
- Excellent resistance to water and sea water
- Tough and high abrasion resistance

PHYSICAL PROPERTIES

Colour	Gray
Finish	Semi-gloss
Volume Solids	63 %
Typical Thickness	Dry : 125 microns / coat
Theoretical Coverage	5.0 ㎡/L at 125 microns DFT *Practical coverage vary depending on loss factors.
Flash Point	Base : 22℃, Hardener : 9℃
Specific Gravity	1.46 g/cm3(Dark Gray)
VOC	321 g/L
Temperature Resistance	Non-continuous : 230℃, Continuous : 200℃

*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-SP1).
- Remove rust, mill scale and other loose material completely by abrasive blasting (ISO 8501-1:2007 Sa 2 1/2.

APPLICATION

Application Conditions	Ambient temperature shall be above 5℃ and relative humidity shall be below 85%. Surface temperature shall be a minimum of 3℃ above dew point. Adequate ventilation shall be provided in confined spaces to ensure proper drying.
Mixing	Stir each component with power agitator well before mixing. Then power mix two components.
Mixing ratio	Base/Hardener = 9 / 1 by weight
Induction Time	15 minutes after mixing base and hardener when ambient temperature is below 10℃.
Application Method	Airless spray Thinner : Tect EP Thinner (0-10% by weight) Nozzle pressure: Not less than 10Mpa Nozzle Tip : No.163-619～623 Brush/Roller Thinner : Tect EP Thinner (0-5% by weight) *Too much thinning results sagging and slower cure.

Clean Up	Clean all the equipment with thinner immediately after use.			
Pot Life		10 ℃	20 ℃	30 ℃
		8 hour(s)	8 hour(s)	5 hour(s)
	*Use all mixed paint within pot life.			
Drying Time		10 ℃	20 ℃	30 ℃
	Surface dry	3 hour(s)	2 hour(s)	1 hour(s)
	Touch dry	16 hour(s)	12 hour(s)	8 hour(s)
	*Drying time may vary depending on film thickness, ventilation, humidity, undercoat paint condition etc.			
Overcoating Interval		10 ℃	20 ℃	30 ℃
	Minimum	24 hour(s)	16 hour(s)	16 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	THERMOTECT EP			
Typical topcoat	THERMOTECT EP			

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. Store conditions shall be in accordance with national regulations.

SHELF LIFE

Base: 24 months from date of production, Hardener: 12 months from date of production

GENERAL REMARKS

- This product is epoxy resin based paint. Same as common other epoxy paint, THERMOTECT EP will chalk and discolour with direct outdoor exposure.
- Water or moisture such as rainfall during drying stage may make the paint film surface colour whitish. Once such phenomena is observed, light sanding is required to remove the surface layer before subsequent painting.

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

ISSUED DATE : 06/08/2018