

Technical Data

THERMOTECT WR -AL

GENERIC TYPE	Heat Resistant Paint
DESCRIPTION	A heat resistant paint based on inorganic copolymer 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 650°C - Cyclic services in temperatures between -185°C~540°C - Suitable for insulated and non insulated surface - Good weather resistance - Good applicability
PHYSICAL PROPERTIES	
Colour	Limited Grey shades with aluminium effect
Finish	Semi-gloss
Volume Solids	70 ± 5 %
Typical Thickness	Dry : 125 microns / coat
Theoretical Coverage	5.6 m ² /L at 125 microns DFT
Flash Point	*Practical coverage vary depending on loss factors. 25°C
Specific Gravity	1.80 g/cm ³
VOC	258 g/L
Temperature Resistance	Non-continuous : 650°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).
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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 each component with power agitator well before mixing. Then power mix two components.
Mixing ratio	Base/Hardener = 95/5 by weight
Induction Time	Not required
Application Method	Airless spray Thinner : Nerolac Thinner (5-15% by weight) Nozzle pressure: Not less than 10MPa Nozzle Tip : No.163-415~621 Brush/Roller Thinner : Nerolac Thinner (0-10% by weight)

*Too much thinning results sagging and slower cure.

Clean all the equipment with thinner immediately after use.

Pot Life	10 °C	20 °C	30 °C
	14 hour(s)	12 hour(s)	8 hour(s)

*Use all mixed paint within pot life.

Drying Time	10 °C	20 °C	30 °C
Surface dry	3 hour(s)	3 hour(s)	2 hour(s)
Touch dry	16 hour(s)	6 hour(s)	6 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	24 hour(s)	6 hour(s)	6 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 –

Typical topcoat THERMOTECT WR – AL

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: 12 months from date of production, Hardener: 6 months from date of production

GENERAL REMARKS

- Make sure to protect painted film from dust in case drying time under normal temperature becomes long before high temperature service starts.
- Mist coat is required in case applying over inorganic zinc rich paint. First coat of THERMOTECT WR AL shall be diluted by 10-30%(wt) and apply in two installments by wet on wet method.
- 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.
- It is not suitable for strong steam, acid and alkali environment due to poor resistance.
- Color may turn to reddish at the range more than 300°C. Film performance is not be affected.

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

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