冰冰漆頂級隔熱奈米塗料
www.heatax.com.tw

Heat-AX reflective coat

PRODUCT DESCRIPTION

Heat-AX reflective coat is an ultra-high performance insulation coating designed using aerospace technologies to specifically target issues with radiant heat, heating and condensation issues pertaining to buildings, equipment, pipelines and oil tanks.

- Effective between 16^{o}C to 400^{o}C
- Maximum temperature of up to 400^{o}C
- After 24 hours, dried coating surface is moisture resistant
- After 24 hours, dried coating surface has excellent water resistance
- After 24 hours, dried surface has excellent corrosion resistance against salt laden air
- Outstanding application properties
- US Intertek SR0.88 certified (highest score in the certification body's database)
- Singapore Green Mark certified (first chemical manufacturer to receive the certification)
- China CMA certified (highest score in terms of heat insulation index)
- Patented in Taiwan
- Completely environmentally-friendly, does not contain any toxins, heavy metals or other harmful substances

PRODUCT CHARACTERISTICS

- Finish: Matte (dull)
- Color: white
- VOC: N.D.
- ROHS: N.D.
- Weight: 22.5 kg ± 3% (including packaging)
- Capacity: 5 gallons, around 18.96 L (95% full)
- Total solid content: 63.6% (by weight) 68% (by volume)
- Density: 1.21 kg/L
- Blending agent: Do not add any substances (including water)

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Recommended Spreading Rate per coat

- Standard layer thickness: wet coating 0.4mm (400um) dry coating 0.25mm (250um)
- Application per L
- Metallic materials: 1L / 2.5 square metres
- RC materials: 1L / 0.555 square metres (without weathering layer)
- RC materials: 1L / 0.444 square metres (with weathering layer)
- Application per 5 gallon barrel
- Metallic materials: 5 gallon / 45 square metres
- RC materials: 5 gallon / 35 square metres (without weathering layer)
- RC materials: 5 gallon / 30 square metres (with weathering layer)
- Areas stated above refers to standard coating thickness
- Standard coating thickness refers to the thickness achieved after two applications

Drying Schedule

- 16^{o}C-26^{o}C: around 60 minutes
- 26^{o}C-34^{o}C: around 30 minutes
- 36^{o}C-50^{o}C: around 15 minutes
- 50^{o}C-80^{o}C: around 10 minutes
- 80^{o}C-100^{o}C: around 5 minutes
- 100^{o}C and above: around 1 minute

Shelf life

- 3 years from date of manufacture

Flash point

- 180^{o}C

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RECOMMENDED USES

- Suitable for multiple materials including metals, reinforced concrete (RC) and wood
- Very suitable for oil tanks, pipelines and other petrochemical equipment
- Very suitable for buildings and other construction materials
- Suitable for surfaces of equipment that requires temperature control (hot or cold)
- Suitable for reducing energy loss (hot or cold) for equipment.
- Suitable for public transport systems with air-conditioning including frozen container trucks and buses

	ASTM C1549-04 ASTM C 1371-04a	0.88
SGS Singapore Green Mark	RoHS 2002/95/EC IEC62321/2nd CDV(111/95/CDV)	n.d.
SGS Singapore Green Mark	UV Resistance Test ASTM G154-06	No appearance anomaly
SGS Singapore Green Mark	Alkali Resistance Test CNS 10757(1995)	No appearance anomaly
SGS Singapore Green Mark	Serub Resistance Test CNS 10757(1995)	No appearance anomaly

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Application procedure and Notes

1	2	3	4	5
Clean surface	Mix evenly	Spray coating	Drying	Second coating

Procedure

(1) Clean the surface before coating. Use clean water to wash the surface and remove any dust.
(2) Check for moss and grease residue while cleaning the surface and make sure it is removed before applying the coat.
(3) Open the lid and stir for approximately 1 minute manually or 30 seconds using a mechanical stirrer before applying the coat. Do not add water or any other additives.
(4) The suggested thickness for the first coat is 100um (move the brush or roller from left to right and back for each application. 100um will require around 3 applications). The suggested thickness for the second coat is 300um (around 8-9 even applications with a brush or roller). The total wet coat thickness after 2 coats is 400um (0.4mm). After drying, the thickness will settle at approximately 250um (0.25mm). As the outcome will differ according to the techniques and level of pressure used according to each workman, please calculate the coating area based on the actual material and coat the surface evenly multiple times. (see Note 9)
(5) Wait around ½ -1 hour between the first and second coats. The surface will only be ready for the second coat once it is dry and does not feel sticky to the touch.
(6) If using a spray gun, the spray distance should be around 30-45 cm and the air compressor pressure should be set to 8 pounds.

(7) If using a brush, apply in a single direction to prevent any unsightly marks.
(8) Ensure there are at least 2 coats for optimal insulation and water resistance.

Notes:

(1) If using a spray gun, select a nozzle with the largest diameter. For optimal results, use a spray gun that is suitable for cement spraying. Otherwise, application issues may occur due to small nozzle size or insufficient pressure.
(2) If using a brush, apply in a single direction. Apply the second coat after the first coat has dried and ensure that all exposed areas are covered.
(3) The application temperature must not be lower than 18^{o}C. Otherwise, cracks may appear when drying.
(4) For optimal results, apply a coating to the standard thickness, i.e. dry coat thickness of at least 0.25mm. Wait ½ -1 hour between each coat to ensure that the coated surface is completely dry.
(5) When coating reinforced concrete (RC) or waterproof PU, assert more force during the first coat to ensure strong adhesion between the coated layer and the work surface and prevent any gaps.
(6) Work surfaces should be cleaned at least once a year so that the surface remains clean.
(7) Ensure that there is no moisture on the work surface. Otherwise, hydrolysis or contamination may occur which may affect insulation effectiveness.
(8) When coating PU materials, clean the surface properly as the PU materials may have grease stains and/or other debris. Increase the number of applications during coating (step 4) to remove grease stains and debris.

(9) Each 5 gallon barrel is sufficient for 35 square metres of reinforced concrete (RC) without weathering layer or 30 square metres with weathering layer; and for 45 square metres of metallic materials such as sheet metal buildings, pipelines, equipment and buses. The above areas refer to the standard thickness after 2 coats.

Contact information:
Please feel free to contact us if you have any questions

A. During office hours from Monday to Friday between 8.00 am 4.00 pm. Please call 886-2-26950889

B. During weekends and public holidays. Please call 886-922681394

Our staff will be available to serve you.

Thermo-AX insulating coat is a revolutionary insulation coating that is designed to reduce energy loss, protect the operating environment, ensure work safety and resolve issues such as condensation on equipment.