



NETIS NO. KT-160047-A

ISO 9001 : 2015 & JISQ9001 : 2015 NO. QA165292

**THERMBLOCK**

ECOTHERMAL WATER-BASED INSULATION PAINT

# Thermblock Construction Procedure

Thermblock Vesta Holdings Inc.

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## Product Composition



Under coat (Primar)	<b>Therm Base M or U</b>	15kg 33lb 1.1oz	0.1~0.2kg/m <sup>2</sup> 3.5~7.0oz/m <sup>2</sup>	—Liquid water, acrylic resin primer— Reinforcement of concrete base surface, prevention of absorption of Thermblock moisture into paint base
Main material	<b>Thermblock</b>	11kg 22lb 4.0oz	0.35kg/m <sup>2</sup> 12.3oz/m <sup>2</sup>	—Liquid water, acrylic resin paint— Insulation paint with heat insulation and moisturizing function
Finish (Top)	<b>Therm Top S</b>	15kg 33lb 1.1oz	0.1kg/m <sup>2</sup> 3.5oz/m <sup>2</sup>	—Liquid water, silicone acrylic resin clear coat— Reduces dirt on walls, etc. due to rainwater. It will be a semi-gloss finish. Supports heavy walking.

Base material adjustment (ground adjustment) ← Base material adjustment is important.



- If there is dirt, float, oil film, etc .... Air blow, high pressure water washing, and dry well.
- When rust occurs: Perform various types of cleaning, remove the deteriorated coating film, clean it, and apply rust preventive coating.(Epoxy resin paint, etc.).

## Undercoat material construction (Therm Base M or U)

Any material that does not have water repellency is OK.

Please use for water-absorbent paint base (RC, ALC, block, siding, color beet colonial, etc.).

**Application method:** Brush, roller, spray

**Number of applications:** 1 time M is no dilution, U is OK up to 2-fold dilution depending on the substrate condition.

**Estimated curing time:** 2 hours in summer 3 hours in spring and autumn 4 hours in winter

In the case of a rust-free iron plate or a paint base that does not absorb water, sufficient adhesive strength can be obtained even if the main material of Thermblock is applied directly.

However, please note that it does not have a rust preventive effect. We have prepared M as a universal type primer and U type as a primer with a large suction amount.

## Main material construction (Thermblock)

Although it has been adjusted to a paint that can be painted immediately, hollow beads with a light specific gravity are floating on the top, so stir well before use. Thermblock is a product for light walking. Also, do not use it in submerged areas.



The point is to always stir with an electric stirrer so that the upper and lower parts of the paint are well mixed. (About 3 to 5 minutes)  
**It will never mix with a stick.**

It takes about 5 minutes to color with a color base (pigment)

It is an important work to prolong the uniformity of heat insulation effect and longevity.



This type of stirrer is the best

## ◆ Dilution amount

This paint is a water-based paint. Please note that excessive dilution will cause poor film formation.

Brush / roller  
0-300cc(10.1oz)  
(per can)

- It is also a good idea to increase the dilution during the first coating (improve the elongation) and decrease the dilution during the second coating.

Airless gun blow 800cc  
(27oz) (per can)  
Please dilute and install.

**Estimated dilution 300cc ~ 800cc (10.1oz~27oz) / can at the time of the first painting**

**At the time of the second painting 0-300cc(10.1oz) / can**

### Note!

With water-based paint, the water content of the solvent evaporates cleanly, forming a high-quality coating film. Thermoblocks are particularly thick, so they need to be thoroughly dried after painting. If the top surface of the coating is submerged without sufficient drying, poor film formation will occur. When it rains, especially during the rainy season, painting during the rainy season requires careful attention and management. Please manage so that the painted surface is not submerged. If the surface is dry, it will not be submerged, and it is okay if it just flows.

- It is recommended to use a tip diameter of 0.4 to 1.0 mm(0.0157~0.0393 inch) for high viscosity airless pumps.
- Use the filter with or without a coarse mesh.
- The ricing gun must be carried around with a can of cassotte attached to the paint, but it is effective if you are not accustomed to airless.
- When selecting a painting device, check carefully with the painting device manufacturer and select the appropriate device.

## ◆ Please note

If you apply it thickly at once, there is a risk of cracking. Be sure to divide the painting work into two or more times. The thicker the coating film, the better the soundproofing, heat insulation, and heat retention.

When applying the roller to a place where the coated surface such as an iron plate or board is slippery, the roller and brush will slip the first time and the film thickness will not be applied. Please try to apply it 2-3 times.

**Note 1:** Do not apply more than 30m<sup>2</sup>(323ft<sup>2</sup>) / can even if you add clean water.

**Note 2:** The coating amount does not include the construction loss.

## ◆ Drying time

The dry condition varies depending on the environment, so wait until the painted surface is dry before moving on to the topcoating work.

**summer**

30-60 minutes

**Spring & Autumn**

60-90 minutes

**winter**

120-180 minutes

**Completely dry** 2 hours

3-4 hours

5-6 hours

**Make sure that there is no adhesion to your fingers by touch inspection, and then apply the top coat.**



## Finishing (Therm Top S) construction avoid applying in the evening. (Possibility of poor coating film)

Roofs and rooftops that are exposed to direct rain will not get dirty even if only the main material of the thermo block is finished, but dirt can be reduced by painting on easily dirty places such as the outer wall of a building without eaves.

Apply after the main material has dried sufficiently. If applied on top of undried, swelling will occur. The H type can also be used for heavy walking (sidewalks, parking lots, playgrounds).

- Coating method: Brush, roller, spray
- Number of applications: 1-2 times  
(dilution amount of water: 0-10%)
- Curing time: 3 hours



Normal coating



Poor coating film

- Small cracks occur on the surface.
- The surface may whiten after drying.

## Water-based paint (handling and construction precautions)

- Basic painting procedures, temperature and humidity conditions, and cleaning of road tools are the same as general water-based paints.
- Since it is a water-based coating material, please install it in an environment where the temperature is 5 ° C(41°F) or higher and the humidity is 80% or lower.
- Avoid rainy weather, strong winds, and humid days, and choose a sunny day for painting.
- In winter, there is a concern that the paint film may not cure properly due to freezing, so adjust the work process so that the paint dries by sunset. Also, when the temperature is low or the base is cold, poor film formation will occur. Please do not paint before sunset.
- If you have any questions about the construction, please contact the dealer.
- To ensure quality and performance, use up within 12 months after manufacturing.
- Store in a cool place away from direct sunlight, even during painting work. (40 ° C (104°F) or less + 1 ° C (33.8°F) or more)
- If you want to interrupt the work before using up one can, cover the surface of the coating material with vinyl and cover it tightly.
- Do not mix the film on the side of the can, the film on the lid side, and dry paint together.
- The thermblock has a matte finish. Therm Top S has a semi-gloss finish.

## ◆ Safety

During handling, avoid contact with skin and wear protective goggles and protective mask if necessary. Also, improve ventilation both during painting and drying to avoid inhaling vapors.

- When disposing of cans, use up the contents and entrust the disposal to a licensed company as industrial waste.
- Do not flush the cloudy water used for cleaning painting equipment into sewage or rivers.

Manufacturer:



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