

【Q&A regarding Thermal insulation paint】

Heat insulation paint	Category	Question	Answer
1	Mechanism/theory of thermal insulation paint	Please tell me what the mechanism/theory for energy saving is used in thermal insulation paint.	< Heat shielding paint > Reflect heat/light ray(Reduce temp from surface of outside wall and roof)
		Please tell me what difference between heat shielding paint and heat/thermal insulation paint.	< Heat insulation paint > Reduce transfer of heat and cold wave(high/low temprature).Keep temprature wanted to maintain originally and save energy.
		Please tell me the relation between painting thickness of this paint and improvement heat insulation effect.	Become the insulation layer thicker ,heat transfer to outside of heat insulation coating film is lesser.
2	Characteristic/Strength of product Difference with the other step and maker	Please tell me characteristic of your company product.	<ul style="list-style-type: none"> · Primer · Middle coat · Top coat is all of water-based paint. · Possible to export to abroad. · We choose mainly hollow beads as heat insulating filler which is superior material at thermal insulation efficient.
		Please tell me what difference between your company paint and the other companys insulation paint.	
		Please tell me the difference of kind and structure with other heat insulation paint(EX)Thickness,color etc.	
		Please tell me as for thermal insulation jacket/thermal sheet/thermal insulation paint,If there is characteristic and classification of purpose to use (would like to know strength and weak point through conparing with other solution)	<p>< Paint > Strength : Can apply to complex structure with flexibility,and crumbs is lesser than sheat attaching style. Paint have anti corrosion effect. Weakpoint : have a lot of work step comparely (two~three time painting)</p> <p>< Sheet > Strength : Easy to apply comparely(attach by adhesive) Weakpoint : Place is limitted and that Only flat place is applicable.</p> <p>< Jacket > Weakpoint : Easy to bring about corrosion.</p>
3	How to application this paint (Handling step · Caution item · knowhow is existing or not)	Please tell me ordinary working step flow of this paint.	Please paint Primer→Middle coat (→Topcoat) by this step order.
		Is needed knowhow to apply this product and installation?(EX)Painting 2times, way to painting etc.	
		Is it okay if the flame hits the heat insulating/heat shielding paint directly?	
4	How to confirm the efficient of energy saving	Please tell me effect estimation and caluculation method (before construction)	Trial calculation is calculated on the basis on input energy change/surface/Inside furnace temperature/operating time, etc.
		Please tell me ordinary way to checking effect (after construction)	
		Is there the range of temperature the heat insulation paint is good at? (XX°C~XX°C)	
5	Cost & return on investment	Approximate cost per standard area (1㎡) and payback year	We estimate return on investment is 2 ~ 3 years.
		In general, is there a temperature below which the surface temperature of the furnace is determined to be advantageous?	Trial calculation based on input energy change/surface/furnace temperature/operating time, etc.
6	Handling Precautions	If there is handling precautions, please tell me.	This paint is treatable as same as ordinary water-based paint.
7	About maintenance and management	Please tell me about general maintenance and management methods.(EX) Paint more from above?	After surface adjustment (remove the old paint film), it will be repainted.
		In general, how long is the lifespan of thermal insulation/heat shielding paint? Also, does the degree of deterioration differ depending on the temperature environment for heat insulation?	We believe that the surface temperature rises due to thinning and other factors.
		Please tell me the judgment of deterioration(criteria) and the replacement frequency.	It has passed the same test as ordinary heat-resistant paint (repainted after 5 years).
		Please tell me how long the effect lasts and how much the heat insulation ability declines.	
8	Others	Please tell us about successes example and failure example.	Success example: The radiant heat from the oven become lower, which improves the effectiveness of the cooler in the summer, and the heat in the furnace is not easy t to cool in the winter, saving on heating costs after painting. Failure example: None
		If there are any disadvantages, please let me know.	Due to the high viscosity of the intermediate coating, it is a little bit difficult to apply by hand(as same as YouTube video)→Products for spray painting are also available.
		Are there any furnace manufacturers you deal with directly?	The current product was on sale from 2022, and is currently being evaluated by several companies.
		Do you have any experience with construction when installing a new furnace?	
		Are there any parts with shapes that cannot be painted?	None