



zandleven coatings

Thermaguard® TC1200

siloxane

Thermaguard TC1200 is a single pack, inert multi polymeric matrix, heat resistant topcoating which can be applied as a finishcoat on a Thermaguard CUI 300 or CUI 650 coating product/system, on Thermaguard SAL 600 or any other anorganic zincrich primer. For atmospheric, maritime and offshore condition, like process industry, platform, power plants etc.

- Color fastness at elevated temperature
- Drying and hardening will take place at room temperature
- Damage due to transportation will be reduced
- To apply on hot substrate, up to 130°C
- Application without shutdown
- No free silicone part, no silicone contamination

Specific properties

- Heat resistant topcoat
- Resistant against cyclic thermal conditions at high temperature, from -196°C up to 650°C
- Cracking due to chloride exposure on stainless steel will be prevented
- Recoatable, regardless ageing, in accordance with application instructions

Product information at 20°C

Finish	Matt
Color	according TC1200 color map
Mass density	approx. 1.55 kg/L
Solids content by volume	approx. 58 volume %
VOC	approx. 335 gr./L (volatile organic compound)
Recommended film thickness	60 micron w.d.f.t. 105 micron w.f.t. w.f.t. Above mentioned film thickness shouldn't be exceeded by more than 50%.
Theoretical spreading rate	At 60 µm d.f.t. 9.7 m²/L At 80 µm d.f.t. 7.3 m²/L
Practical spreading rate	Depending on several factors like shape of object, profile of surface, method of application, application circumstances and experience. A few guiding principles are: Brush/roller 85-90% of the theoretical spreading rate Spraying 50-70% of the theoretical spreading rate
Flashpoint ISO 1523	Paint 30°C Thinner BB 55 27°C Thinner FF 55 41°C
Dry temperature resistance	-196°C up to +650°C
Shelf life	Material should be stored in a dry, shaded environment away from heat & ignition sources. Do not allow material to freeze. Shelf life is minimum 12 months at 23°C.

Drying times

For d.f.t. up to 80 µm
Dust dry
Manageable

35°C	23°C	10°C
60 minutes	2 hours	6 hours
16 hours	24 hours	36 hours

Recoatable:
Minimum interval

6 hours 8 hours 24 hours

Maximum interval

Unlimited, provided that the surface is clean and dry.
Film thickness, ventilation, temperature and relative humidity are of great influence on the drying times.

Application of the isolation

After 48 hours after the last layer has dried.



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Application instructions

Application conditions

During the application and the hardening the temperature should be above 5°C.

The surface should remain dry and the temperature of the surface should at least be 3°C above dew point.

During application and hardening in closed or small spaces, it is necessary to refresh the air continually to remove the solvent vapours, this because of drying, health and safety.

Usage information

Type of thinner
Recommended thinner
(depending on application
and equipment)
Nozzle orifice

Nozzle pressure
Maximum attainable d.f.t.
Cleaning of tools

Airless-spray	Airspray	Brush/roller
BB 55 / FF 55	BB 55	BB 55
0 – 5 vol. %	5 – 10 vol. %	0 – 5 vol. %
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0.38 – 0.43 mm 0.015 – 0.017 inch	1.8 – 2.2 mm	
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160 – 200 bar	2 – 3 bar	
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80 µm	60 µm	50 µm
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Thinner BB 55		
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Surface conditions

Steel

New steel:

The product can be applied on a recommended anti corrosion primer/system

Stainless steel

New stainless steel:

The product can be applied on a recommended primer/system

Repair and maintenance

Clean the surface thoroughly with a suitable cleaning preparation or by steam cleaning.

Remove salts and other water soluble impurity by spraying with clean tap-water under high pressure.

Remove rust a.o. by (water)blasting Sa 2½ or derust mechanical until St. 2-3, in accordance with ISO 8501-1:2007.

Apply the advised paint system on a clean surface.

- Mechanical or hand derusting gives less quality than (water)blasting
- and will result in less protection of the applied paint system.

Application substrate temperature

Thinner BB55, from 10°C up tot 60°C

Thinner FF55, from 60°C up to 130°C



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Ventilation precaution

Minimum required quantity of air to comply with:

	IOELV(EU)	10 % LEL
Thermaguard TC1200	1102 m³/L	46 m³/L
Thinner BB 55	3935 m³/L	165 m³/L
Thinner FF 55	1750 m³/L	163 m³/L

IOELV = Indicative Occupational Exposure Limit Values

LEL = Lower Explosion Limit

Also consult the security information sheets

Additional and applicable information (www.zandleven.com)

- General guidelines
- Material Safety Data Sheet
- information curing agents en thinners
- Color surcharge
- General terms and conditions of delivery



These data have been drawn up to the best of our knowledge and were correct at the date of issue. However we cannot accept full responsibility, because de choice of products and circumstances during elaboration of the systems fall outside our judgement. This documentation sheet will not automatically be replaced in case of modification.

The English language text is a translation. In case of doubt the Dutch language original text has to be consulted as the authoritative text.