



VTEMP 200

DESCRIPTION

- ❖ Service Temperature upto 175°C [200°C Peak]
- ❖ Meets CS-1, CS-3 and CS-4 in NACE SPO 198-10 for corrosion under insulation.
- ❖ For Carbon Steel application
- ❖ Resistant to thermal cyclic shocks
- ❖ Can be applied directly to hot surfaces upto 148°C
- ❖ Single coat system
- ❖ UV stable

- **VTEMP 200** is a **single component** high build coating based on multi polymeric composite

- **VTEMP 200** is specifically designed for protection of surface operating upto 175°C under insulation

- **VTEMP 200** forms a tough and durable film which is highly resistant to thermal shocks and thermal cycling. Pencil Hardness of 4B in ambient and 7H in service is achieved

- **VTEMP 200** can be applied directly to ambient and to hot substrates having a metal temperature up to 148°C thus reducing down times or shutdowns.

- **VTEMP 200** is dark grey in color and can be top coated with VTEMP TIC 177 THERMAL INTERFACE COATINGS and INSULATING COATINGS.

The dried coating is durable and tough in nature and as such adhesion test should be performed in accordance with ASTM 3359 -09, results to 5B

PRODUCT TECHNICAL DATA:

TESTING	
ASTM -2402 weight loss 175°C	3.05%
ASTM B117 Salt Fog	4000 hours scribed (9/8)
ASTM G-18 Impact	.> 18 kgs

SURFACE PREPARATION

CARBON STEEL

Carbon steel surfaces to be coated with **VTEMP 200** should be dry and free of all weld splatter, oil, dirt, grease and all other contaminants, especially salts. Round off all rough welds and sharp edges. Dry abrasive blast clean to an SSPC-SP 6, "Commercial Blast" (Sa 2) with 38 to 63 micron profile. Wet abrasive blast or UHP wash with grit injection to achieve an equivalent of an SSPC-SP 6 (Sa-2).

If abrasive blast preparation is not possible, use SSPC-SP 11, power tool cleaning to bare metal.

Higher the cleanliness, better would be the performance of the coating.

MIXING, THINNING AND CLEANUP:

VTEMP 200 is a Single component product with **52 ± 2% volume solids**. Use mechanical mixing until the material becomes free flowing and smooth without any lumps; and as needed during application. Be sure any settled solids are incorporated during mixing.



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APPLICATION EQUIPMENT

Product can be applied using a conventional pot gun or an airless spray.

For small area or stripe coating use a suitable brush or roller

APPLICATION

VTEMP 200 can be applied on substrate with temperatures running from 10°C upto 150°C. Ensure that the temperature of the substrate is at least 3 °C above the dew point to avoid condensation. Ambient temperature should be > 10°C. Humidity levels as high as 85% can be tolerated.

APPLICATION AT AMBIENT TEMPERATURES < 65 °C

Apply thin even passes, overlapping each pass 50%. Hold spray gun 10” to 12” from surface at right angles Flush with Thinner # 11

APPLICATION TO HOT SURFACES:

VTEMP 200 should be applied in thin mist coating in multiple passes while applying on substrate to avoid blistering and solvent entrapment. If blisters are observed immediately brush out the blisters before they set, using bristle brush.

Flush with Thinner # 5. For application temperatures upto 148°C, request for special thinners

In case of blistering, brush out he blisters immediately and recoat

Note that the higher the substrate temperature, the shorter the recoat time.

COVERAGE

	Minimum	Maximum
Film thickness, dry (µm)	200	250
Film thickness, wet (µm)	375	475
Theoretical spreading rate (m ² /l)	2.5	2.0

TYPICAL PAINT SYSTEM

FOR CUI	1 coat of 200-250 µm DFT. As an option this can be followed by VTEMP TIC 177 or any other insulating material
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APPROXIMATE DRYING SCHEDULE

Surface Temp	10°C	40°C	100°C
Touch Dry	4-5 hours	1.5-3 hours	NA
To Insulate	48 hours	24 hours	24 hours
To ship	72 hours	48 hours	-



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STORAGE

The product must be stored dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed. Prevent from moisture contamination. Storage temperatures 5°C to 40°C.

SHELF LIFE

12 MONTHS. In case shelf life exceeds, the product has to be recertified before being put use

PACKING

1 gallon cans; 3.785 Ltr

HANDLING

Handle with care. Stir well before use.

HEALTH AND SAFETY

- Read the Material Safety Data Sheet (MSDS) and container labels for detailed health and safety information.
- Do not apply material in enclosed areas without adequate air exchange and ventilation.
- All application personnel must use fresh air respirators or fresh air hoods in enclosed areas.
- Wear protective clothing, gloves and eye protection.
- Breathing fumes or contact with the skin may cause severe allergic reactions, if processed at elevated temperatures.
- In case of accidental contact with Product, Immediately wash with soap and water.
- This product is intended for industrial use by properly trained professional applicators only.

DISCLAIMER

The information in this data sheet is based upon laboratory tests we believe to be accurate and is intended for guidance only. All recommendations or suggestions relating to the use of the VASCOAT/VTEMP products of VASU CHEMICALS, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge are reliable.