

PROTHERM HR SCT-33000

No. TD : S-003
Revision : 02
Effective Date : 21/06/2024

PRODUCT DESCRIPTION & USES

PROTHERM HR SCT-33000 is a silicone based heat resistance paint which have resistance up to 300 °C (non immersion). This product used as coating on steel substrates in a wide range of industrial environment. Suitable for new construction and maintenance coating for petrochemical plants, power stations, off shore structures etc. Excellent weathering properties and overall durability.

Air dries tack-free at room temperature. Achieves fully cured state on subsequent baking, normally achieved when coated component is brought into services.

FEATURES

- Heat Resistance up to 300 °C
- Easy to Apply with Low Thickness
- Excellent Weather Resistance

PRODUCT SPECIFICATION

Colors : Aluminum, White, Black
Finish : Matt – Doff
Volume Solid : 32 ± 2%
Specific Gravity : 1.20 ± 0,04 g/cc
Flash Point : 27 °C
Packaging : 5 and 20 Liters
Storage Stability : 24 Months. If it is stored in cool and dry place, also in its original not opened package (Do not store under below freezing point)

APPLICATION

Application Condition : 20 – 35 °C, 80 – 85 % RH
Thinner : THSG-90300 as Cleaner Only
Application Method : Airless Spray Air Spray Brush/Roller
Thinning Ratio by Volume : 0% 0% 0%
Tip Size for Airless Spray Gun : 0.019 – 0.021 inch Air Pressure : approx. 160 bar/2300 psi
Nozzle Orifice for Air Spray : Approx. 1 – 1.5 mm Air Pressure : approx. 3-4 bar/40-60 psi
Wet Film Thickness (WFT) : 75 – 95 microns or 2.9 – 3.7 mills
Dry Film Thickness (DFT) : 25 – 30 microns or 1 – 1.2 mills
Theoretical Coverage : 12.80 m²/Liter (DFT = 25 micron)

FILM PROPERTIES

Drying Time (@ DFT = 25 mic) :	20°C	30°C	35°C
• Surface Dry	40 – 50 minutes	20 – 30 minutes	10 – 15 minutes

Re-coating Interval : Minimum 24 hours (30°C)

Provide adequate ventilation during application and drying

Note : This product will only harden if the temperature is raised to 200°C for minimum of 5 hours, which is normally as the item is brought into service.

RECOMMENDED COATING SYSTEM

Primer Coat	: PROTHERM PRIMER SCP-20300
Finish Coat	: PROTHERM HR SCT-33000
Recommended Dry Film Thickness	: 2 coats (25 microns / coat)

SURFACE PREPARATION

1. All surfaces should be clean, dry and free from all contamination and undamaged compatible coating in accordance with SSPC-SP 1 solvent cleaning
2. Oil or grease should be removed by solvent cleaning or industrial detergent.
3. Remove the rust with mechanical sander or with chemicals.
4. Blast cleaning with suitable blasting material minimum Sa2, hand or power tool cleaning to a minimum standard of St2 in accordance with the ISO 8501-1 : 1988 or SSPC-SP 2.
5. In case of new steel, abrasive sand blasting to minimum Sa 2^{1/2} in accordance with the SWEDISH STANDAR SIS 05 59 00 and ISO 8501-1: 1988 or SSPC-SP 6 before applying recommended primer coating system.
6. Areas of breakdown, damage and etc., should be prepared to the specified standard (e.g. Sa 2^{1/2} (ISO 8501-1)) and primed prior to the application of PROTHERM HR SCT-33000.
7. The Primer surface should be dry and free from all contamination (oil, grease, salt, etc.) and over coated with PROTHERM HR SCT-33000 within the over coating intervals specified.
8. Provide adequate ventilation during application and drying.

INSTRUCTION FOR USE

Firstly, stir well **PROTHERM HR SCT-33000** until homogenous. Material could apply using airless spray or conventional air spray or brush or roller. Use Thinner **THSG-90300** as a solvent cleaner. Provide adequate ventilation during application and curing.

SAFETY PRECAUTION

This product is flammable. Avoid contact with the skin and eyes. Wear suitable protective coating, such as overalls, goggles, dust mask, and gloves. Use barrier cream. Do not breathe vapor of spray. Do not smoke. Provide adequate ventilation during application. Use only explosion proof equipment.

FIRST AID:

- General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Eyes : In the case of accidental splashes, flush eyes with clear running water for 5 minutes while holding eyelids open. If irritation persist, seek medical attention.
- Skin : Wash off thoroughly with plenty of water and soap. Do not use solvent or thinner. Removed contaminated clothing. If irritation persist, seek medical attention.
- Inhalation : Remove affected person to fresh air area, loosen collar, and provide oxygen if breathing is difficult. If affected person is not breathing, administer CPR and seek emergency medical attention.

DISCLAIMER

This document contains information issued based on the best and latest of Propan's knowledge in accordance to laboratory testing and practical application experience. The end user must test the product's suitability for their specific application and purpose. Propan shall not be liable for defects where the application of the Product has not been made fully in accordance with the recommendations and requirements. This document is subjected to change without further notice. Please consult Propan for any specific guidance on the suitability of this product for their needs or for any specific application practices.