

ROKOAT TechShield Thermal Reduction

Overview

ROKOAT TechShield Thermal Reduction coating is a single component, high temperature protective coating for composite and related substrates. This heat reduction coating holds thermal stability up to temperatures of 815°C at a thickness of between 12.5 – 25 microns.

Designed primarily for exhausts and used internally facing the heat source, TechShield Thermal Reduction coating ensures heat transfer to exterior coatings is minimised, reducing blistering and flaking paintworks due to thermal shock.

Extremely versatile, it can be used on most high temperature metals, examples being exhausts, turbo chargers and engine covers.

Features



- Only 1 coat required
- Extremely thin (12.5µm - 25µm)
- Air dried product or oven cured
- Better coverage than other high temperature coatings on the market
- Corrosive resistant
- Up to 815 °C thermal stability
- Opaque colour

Applicable Surfaces



All types of clean metal surfaces*.

* See Application Guide for surface preparation methods. Cars

- Exhausts
- Turbo
- Engine Covers
- Industrial

Properties

Colour	Opaque (colour varies per formula)
Viscosity	20-23 sec. #2 Zahn
Percent of Solids	65-75% ±2%
Odour (liquid)	Slight Solvent
Odour (cured)	NONE
V.O.C.	Exempt per CFR 51.100/ regulation 8
Thermal Stability (cured)	815°C (1500°F)
Conical Bond	(0.3175 cm mandrel) Passed (ASTM D522-93a)
Adhesion	5B (ASTM D3359-02)*
Impact Direct	58 kg (ASTM D2794-93)*
Specific Gravity	1.04± 2% (ASTM D891.09)
Average applied dry film thickness	12.5-25 microns
Estimated Coverage Rate	223 m ² per 3.78 l @ 12.5 microns/15 μ
Estimated Coverage Rate	111.5 m ² per 3.78 l @ 25 microns/25 μ
Cure time	(@ Ambient 18-21°C) 5 days @ 23.8°C
Cure time	(forced air oven) 2 Hours @ 176.6°C
Halogens	NONE
RoHS	Compliant
Salt Spray	(5% solution) 4000+ Hours
Pencil Hardness	7h (Ambient cure)*

Application Methods & Storage Considerations



- Professional Application only.
- Detailed application methods can be found in the Product Application Guide.
- Use in well ventilated areas. Clean and prepare carefully the surface to be treated.
- Use vapour filters on a mask.
- This product has extreme adhesion properties and requires high abrasion for removal. Ensure surfaces that are not to be coated are well protected.
- Can be stored for up to 12 months in original unopened container.
- Store away from heat and sunlight.**
- Further information can be found in the ProductMaterial Safety Data Sheet (MSDS).
- Visit rokoat.com for further information.