

TECHNICAL DATA SHEET

FERONIX THERMAX

HEAT RESISTANT BLACK PAINT UPTO 400°C



SINGLE-COMPONENT

MODIFIED SILICONE RESIN

HIGH-TEMPERATURE PROTECTION

UP TO 400°C DRY HEAT RESISTANCE

A premium-grade, ready-to-use heat resistant black coating formulated with modified silicone resin and heat-stable black pigments for metal surfaces exposed to elevated temperatures up to 400°C under dry heat conditions.

FERONIX THERMAX (HEAT RESISTANT BLACK PAINT UPTO 400°C)**PRODUCT OVERVIEW:**

FERONIX THERMAX is a premium-grade, single-component, ready-to-use heat resistant black coating based on modified silicone resin and heat-stable black pigments. It is developed to provide long-term protection to properly prepared metal surfaces exposed to elevated temperatures up to 400°C under dry heat conditions.

PRODUCT DESCRIPTION:

FERONIX THERMAX combines high-temperature resistance with fast drying, good weather and corrosion resistance, excellent adhesion on properly prepared steel surfaces, and colour stability at elevated temperatures. The ready-to-use formulation eliminates mixing and ratio errors and is designed for straightforward application on suitable metal substrates.

RECOMMENDED APPLICATION:

Chimneys	Exhaust Systems	Silencers	Boilers	Furnaces
Hot Pipelines	Stacks	Ovens	Heat Exchangers	Engine Components
High Temperature Metal Surfaces				

High-temperature, weather and corrosion resistant black coating for suitably prepared metal surfaces.

TECHNICAL DATA SHEET

Parameter	Specification
Colour	Smooth Black Finish
Binder Type	Modified Silicone Resin
Specific Gravity	1.10 ± 0.05
Volume Solids	50 ± 2%
DFT per Coat	35–40 µm microns per coat
Coverage	08–10 Sq. Mtr./Liter/Coat (theoretical)
Drying Time	Touch Dry: 10 min; Hard Dry: 24 hrs
Adhesion	100% (IS 101 Cross Hatch) after heat curing
Scratch Hardness	Excellent after heat curing
Dry Heat Resistance	Stable, non-peeling, no flaking at 400°C
Acid/Alkali Fumes	Excellent (ASTM D6943)
Heat, U/V, Weather Resistance	Excellent; 02*–03* years
Salt Spray	Passes 300 hrs (ASTM B117, 2 coats)
Mixing	Ready to use; stir well before application
Application Methods	Brush, roller, air spray or airless spray
Thinner	Do not use any type of thinner on its application
Recommended Coats	02 coats with 06 hours interval
Surface Preparation	Remove rust and loose scale using wire brush
Shelf Life	12 months in unopened container
Packing	20 liters in printed mild steel drum

APPLICATION PROCESS

STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5
Surface Cleaning	Rust & Loose Scale Removal	Feronix Thermax	Heat Curing / Drying	Long-Term Protection

AVAILABLE PACK SIZE

FERONIX THERMAX is available in: 20 Litres (printed mild steel drum).

STORAGE, SAFETY & PRECAUTIONS

STORAGE CONDITIONS

Store FERONIX THERMAX in its original, tightly sealed container in a cool, dry, and well-ventilated area. Protect the product from direct sunlight, excessive heat, frost, and moisture.

RECOMMENDED STORAGE

Parameter	Recommendation
Storage Temperature	5°C to 35°C
Storage Area	Cool, Dry & Well Ventilated
Container Condition	Keep Tightly Closed
Sunlight Exposure	Avoid Direct Sunlight
Moisture	Protect from Water & Humidity
Shelf Life	12 months in unopened container

HEALTH & SAFETY PRECAUTIONS

- Read the Safety Data Sheet (SDS/MSDS) before handling the product.
- Operators should wear appropriate protective equipment during application.
- Safety Gloves
- Safety Goggles
- Protective Clothing
- Organic Vapour Respirator (where ventilation is inadequate)
- Safety Shoes

SAFE HANDLING PRACTICES

- Use only in well-ventilated areas.
- Avoid inhalation of vapours or spray mist.
- Avoid contact with eyes, skin, and clothing.
- Do not eat, drink, or smoke while handling the product.
- Wash hands thoroughly after use.
- Keep containers tightly closed when not in use.
- Keep away from ignition sources, sparks, and open flames.

FIRST AID MEASURES

Eye Contact: Immediately rinse with clean water for at least 15 minutes. Seek medical attention if irritation persists.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing before reuse.

Inhalation: Move the affected person to fresh air. If breathing difficulties continue, obtain medical attention.

Ingestion: Do not induce vomiting unless directed by medical personnel. Seek immediate medical attention.

FIRE FIGHTING MEASURES

- Dry Chemical Powder
- Carbon Dioxide (CO₂)
- Foam
- Water Spray (for cooling surrounding containers only)

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus where necessary.

DISPOSAL

Dispose of unused product, empty containers, and contaminated materials in accordance with applicable local environmental regulations. Do not discharge paint into drains, watercourses, or soil.

DISCLAIMER

The information contained in this Technical Data Sheet is based on laboratory evaluations, product development data, and practical application experience available at the time of publication. Actual product performance may vary depending on substrate condition, surface preparation, application method, environmental conditions, maintenance practices, and service environment.

Users are responsible for determining the suitability of the product for their intended application and should carry out representative trials where necessary. FERONIX SURFACE SOLUTIONS reserves the right to revise product specifications and this Technical Data Sheet without prior notice as part of its ongoing product development program.