



Zircoat™SF

-Silica free-

Zircoat™ SF is a one-part Zirconia rich coating compound, free of Silica. It comprises of high-temperature stable sintered ceramic powders Zirconia and Alumina in an aqueous base. It is smooth, matte finish coating designed to improve performance and life of refractory components.

- Suitable Substrates:** Refractory bricks, plates, crucibles, saggars etc.
- Surface preparation:** For long term performance of Zircoat-SF a proper surface preparation is most important. The surface to be coated should be free from dirt, grease, oil etc. For this we recommend any suitable industrial cleaner. Glassy surface should be roughened enough with an abrasive disc or by means of sandblasting. All this should be followed by vacuum cleaning.
- Application:** Roller / Brush / Spray. If the coating thickness is above 1.0mm, it should be applied in multiple layers for proper drying. Subsequent layers may be applied after 4 hours or once the coating is dry to touch.
- Curing:** Room temp. to 600°C : 1°C/min
600°C to 1500°C : 2°C/min,
2 Hours dwell at 1500°C

Suitable Applications:

- Crucible coating for metal casting
- Anti-sticking layer for kiln furniture



JYOTI CERAMIC INDUSTRIES PVT. LTD.

Technical Properties:

Specific gravity	:	2.97
Composition	:	> 85% Unstabilized ZrO ₂ 2 - 15% Al ₂ O ₃
Color	:	Yellow
Coverage	:	1 kg / m ²
pH	:	8 – 8.5
Thermal Expansion RTP - 1000°C	:	7.17 [10 ⁻⁶ K ⁻¹]
Max. Temperature use	:	1800°C
Shelf life	:	>12 months. May be re-suspended in water if required

PRODUCT DATASHEET/ZIRCOAT-SF/V1.2/JAN23