



## Product Datasheet

# Emisspro<sup>®</sup>

**Classification:** High emissivity ceramic coating material

### Application:

**Emisspro<sup>®</sup>** high emissivity coating material used for applying on the internal surface of furnace walls that results on increasing radiation efficiency. In general, **Emisspro<sup>®</sup>** high emissivity coating is used to maximize and stabilize the emissivity over varying process temperatures, thus promoting rapid and efficient heat transfer, uniform heating and extended refractory life.

**Emisspro<sup>®</sup>** high emissivity coating is used in high temperature industrial applications such as fired heaters, furnaces and kilns etc. The various substrates are applicable with **Emisspro<sup>®</sup>** high emissivity coating such as firebrick, insulating firebrick, high alumina brick, castable refractory, plastic refractory and ceramic fiber.

**Emisspro<sup>®</sup>** high emissivity coating contains materials capable of absorbing and re-radiating thermal energy. **Emisspro<sup>®</sup>** is designed to provide high coating film strength, higher abrasion resistance, good thermal shock resistance, thermal expansion characteristics similar to their intended substrates, and adequate bond strength with the substrate.

### General product properties:

Properties	Test methods	Value
Emissivity	Pyrometry	0.80 - 0.95
Maximum service temperature	-	1,600 °C
Surface strength	ASTM C1624-05 (2010)	> 20 N
Adhesion pressure	ASTM D3359-09	> 1000 psi
Thermal shock resistivity	Alternate heat/cold (Abient-1,600 °C)	12 Cycles

### Delivery and storage:

- i) Materials shall be delivered in original sealed containers, clearly marked with supplier's name, brand name and type of material.
- ii) Recommended material storage temperature is 10-40 °C. Handle products to avoid damage of container. Do not store for long periods in direct sunlight.

### Technical Support:

**Emisspro<sup>®</sup>** technical support staff is available to provide technical assistance for pre-job planning and troubleshooting at +66 2586 4315 and +66 8 1987 8992 weekday from 8 AM to 5 PM GMT+7 time zone, or at [emisspro@scg.co.th](mailto:emisspro@scg.co.th).