Product description

The nC ProTherm - FIRE-X Advanced Ceramics coating system is based on a covalent bonding mineral and ceramic technology and is designed for thermal insulation, IR reflection and fire protection. Because the ceramic particle structure provides a dense, slightly flexible layer, FIRE-X Advanced is suitable for vibrating or slightly bending surfaces.

Benefits

- Withstands temperatures up to 1300^{0}C
- Thermally insulating coating λ W/(m K) 0.04
- Fire class B-S0-d0
- Prevents condensation, stops thermal bridges
- Chemically adheres to the metal surface
- Extremely fast drying 5 - 60 minutes
- Contains no solvents or metals
- Low consumption of 700gr per m² per mm WFT
- Paintable (enquire for possibilities)
- Life cycle 15 to 25 years

Suitable for

- All surfaces
- Indoor and outdoor performance
- Surfaces exposed to open flame

Properties

Color	White-gray or ordered RAL	Density	0.70g/cm³/20°C (DIN 53217)
Odor	acrylic	pH value	8
Solvents	water only	Shore hardness	A 80

Logistics

Store between 5°C and 25°C
Store for up to 60 months in tightly closed packaging
Available in sets of 4 kg, 16 kg, 40 kg, 175 kg, buckets, cans or bags
Non hazardous good
Product suitable for air transport

Preparatory work

- Remove dirt, grease, loose corrosion, mill scale
- Prepare absorbent substrates
- dry component first
- Mix 1 part water in two parts FIRE-X
- Prepare enough material to spray in 15 minutes

Application

Preparation

- Use tight fitting safety goggles.
- Ensure adequate ventilation
- 371/372is recommended.
- Protect hands and skin from exposure with gloves and suitable clothing. Gloves must comply with standard EN 374 of EU directive 89/686/EEC.
- Only use a brush or roller if the surface requires it.
- Always use a rotor-stator driven spray system, or a concrete or mortar sprayer.

Important rules for application

- Do not eat, drink or smoke during application.
- The surface must be free of grease, dirt and dust.
- Remove loose paint or loose corroded metal.
- A sandblasted surface gives the best result, but is not necessary.
- Ambient temperature between -25°C (FIRE-X Advanced shows exothermic reaction) and 35°C.
- The surface temperature should be between -25°C and 125°C.
- Do not apply at a humidity of more than 85%.

Application

- Stir dry component for a minute with an industrial mixer.
- Pot life (open time) at 35°C is approximately 15 to 20 minutes. Prepare just enough mixture to spray within 15 minutes. Don't make MORE mix, because it will be lost.
- Add 1 liter of water to 2 kilograms of dry component, or 2 liters to 4 kg, etc. Do not stop mixing when adding water!
- Mix for at least 5 minutes and create an airy paste. Add water if the paste is too thick.
- DO NOT use any thinner than water.
- Always use a rotor-stator driven spray system, or a concrete or mortar sprayer.
- Use nozzles from 3mm to 8mm. The wider the mouthpiece, the rougher the surface.
- First make a “grip layer” of 2 mm thickness.
- Then build up the final layer thickness, which can be varied in one layer from 2 mm to 10 mm WFT.
- Exceeding 2cm coating layer is only necessary in very specific situations. Please contact nC if you believe you should exceed 2cm.
- Cross coat application is recommended, wet-on-wet.
- ProTherm - FIRE-X Advanced does not expand during application.
- ProTherm - FIRE-X Advanced will not decrease in thickness during the curing time.