



VERMIFIRE-C600

Vermiculite-Cement Based Fire Resistance Coating for Hydrocarbon Fires

Product Description

Vermifire-C600 is a heavy duty Vermiculite–Cement based fireproof coating specially engineered to protect structural steel, concrete, alloys and other substrates from Hydrocarbon fires.

Vermifire-C600 is designed for use in industrial and petrochemical environments and vehicular tunnel.

Vermifire-C600 is highly durable and will not crack or spall under mechanical impact.

Vermifire-C600 is manufactured under factory controlled conditions in accordance with ISO9001-2000 Quality standard, ISO 14001 Environmental and ISO 18001 safety standards.



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Planting In Vermiculite

Properties and Performance

Passive Fire Protection: Vermiculite - Cement based

Color: Light Gray with spray texture

Packing: 20 Kg bag

Application Method: Spray

Cure: By hydraulic Setting

Initial Setting: 3-4 hrs. @ 20 °c

Dry Density: 800 kg/m³ ASTM E605

Thermal Conductivity: 0.19W/m⁰K

Fire Resistance: 1-4 hrs.

Combustibility: Non Combustible - A1 ISO 1182

PH: 11-11.5

Shelf Life: 6 months

Asbestos: Non Asbestos

Fire Resistance Test: Norwegian Petroleum Directorate (NPD) and UL 1709, JetFire ISO 22899

Corrosion Resistance: Does not Promote Corrosion of Steel

Deflection: No Cracks or Delamination ASTM E759

Bond Impact: No Cracks or Delamination ASTM E760

Cohesion/Adhesion: 350 KPa ASTM E736

Reaction to fire Spread of flame: No Flame ISO 5658

Exposure to high humidity: @35°C, 180 days Without any abnormality

Exposure to Combination wet, Freeze and dry Cycling Resistance: 12 cycles of exposure, Rainfall

@23°C, 72hrs. Freezing @-40°C, 24 hrs. Dry Atmosphere @60°C, 72hrs - - Without any abnormality

Exposure to thermal again: @70°C, 270 days - Without any abnormality

Exposure to Industrial Atmosphere: Wet Air, SO₂, CO₂ gases, @35°C, 30 days - Without any abnormality

Exposure to Salt spray @38°C, 90 days - Without any abnormality

Exposure to Acid Spray: HCl @38°C, 5 days - Without any abnormality

Exposure to Solvent Spray: Five 24hr cycles of exposure @21°C, Drying for 6hrs @21°C,

Drying for 18hrs - Without any abnormality



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Features& Benefits

- Heavy duty, high density formulation
- Highest durability and toughness on the market
- UL 1709 hydrocarbon fire rated up to 4 hours
- ISO 22899-1 jet fire rated up to 3 hours
- Hose stream resistant
- Tolerant to wide range of climates
- Lightweight
- Ideal for onsite and offsite application
- Easy application by spray or trowel
- Nonflammable- during or after application
- Chloride and sulfide free –no special priming required
- Asbestos-free – complies with EPA and OSHA regulations
- Non-friable-high impact strength

Packaging Handling&Storage

- Packaging : 20 kg bag
- Shelf life: 6 months
- Storage: Must be kept dry and off the ground

