



# VERMIFIRE-C400

Vermiculite-Cement Based Fire Resistance Coating for Cellulosic Fires

## Product Description

**Vermifire-C400** is a cement-vermiculite coating designed for internal use, offering up to three hours of fire protection to advanced composites, concrete, polymer-based materials, steel, including alloys. With the added bonus of increased resistance to mechanical abrasion, for example in plant rooms and heavy traffic areas.

Effective fireproofing **Vermifire-C400** is lightweight coatings that are factory blended from expanded vermiculite and inorganic binders. The blend contains millions of micro-dispersed air bubbles that ensure a high resistance to fire and minimal thermal conductivity.

**Vermifire-C400** is manufactured under factory controlled conditions in accordance with ISO 9001-2000 Quality standard, ISO 14001 Environmental and ISO 18001 safety standards

Appearance **Vermifire-C400** can be painted over with sealers and paints to achieve the desired color and finish.



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Planting In Vermiculite

## Properties and Performance

**Passive Fire Protection:** Vermiculite - Cement based

**Color:** Light Gray

**Packing:** 20 Kg bag

**Application Method:** Spray

**Cure:** By hydraulic Setting

**Initial Setting:** 2-3 hrs. @ 20 °c

**Dry Density:** Min.420 <sup>Kg</sup>/m<sup>3</sup> ASTM E605

**Thermal Conductivity:** 0.11W/m<sup>0</sup>K

**Fire Resistance:** 1-3 hrs.

**Combustibility:** Non Combustible - A1 ISO 1182

**PH:** 11-11.5

**Shelf Life:** 6 months

**Asbestos:** Non Asbestos

**Fire Resistance Test:** EN 1363-1, UL 263

**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:** 150 KPa ASTM E736

**Reaction to fire Spread of flame:** No Flame ISO 5658

**Exposure to high humidity:** Without any abnormality

**Exposure to Combination wet, Freeze and dry Cycling Resistance:** Without any abnormality



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### **Features & Benefits**

- Heavy duty, medium density formulation
- Highest durability and toughness on the market
- UL 263 hydrocarbon fire rated up to 3 hours
- EN 1363-1 fire rated up to 3 hours
- Tolerant to wide range of climates
- Lightweight
- Ideal for interior and exterior
- 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

### **Packaging Handling & Storage**

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

