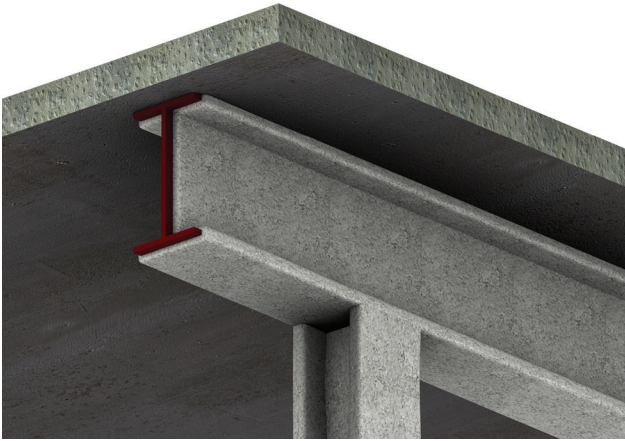


## PROMASPRAY®-C450 (UL TYPE PMCP2)

Vermiculite & Portland Cement Based Wet Mix Spray



File R14613, Type PMCP2



Material properties	
Dry Density (Sprayed upwards)	+/- 365kg/m <sup>3</sup> +/- 15%
Dry Density (Sprayed downwards)	+/- 390kg/m <sup>3</sup> +/- 15%
Alkalinity	pH 12 - 12.5
Thermal conductivity λ (20°C)	0.095W/mK
Specific heat capacity	+/-949J/kg/K
Maximum heat load	+/-300kW/m <sup>2</sup>
Melting point	>1430°C

Packing	
12.5kg per bag	

Static data	
Colour	Grey
Cure	By hydraulic set
Processing temperature	+ 4°C to + 45°C
Substrate temperature	+ 4°C to + 45°C
Minimum layer thickness per spray	8mm
Thickness range	8 to 58mm
Apply waiting time between layers	(50% RH, 20°C) ± 2 to 6 hours

### Product description

PROMASPRAY®-C450 (UL Type PMCP2) is a durable fiber-free modified cement-bound spray mortar based on vermiculite. The vermiculite is factory dried premixed with cement and various inorganic additives. The addition of water on site creates a fire-resistant insulation mortar, which is applied with specialized spraying equipment.

### Benefits

- Non-combustible
- Good insulating & properties
- Very durable
- Erosion resistant (resistant to rain and leakage water)
- Good acoustic absorption
- Fiber free
- Light weight
- Monolithic finish
- Slightly textured surface
- Can be painted over

### Fire Resistant Applications

Suitable for fire-resistant applications in indoor climate (Z2), in indoor climate with high exposure humidity (Z1) and indoor climate and protected outdoor climate (Y):

- Steel supporting structures
- Concrete support structures
- Sheet steel roofs
- Concrete floors, hollow core slabs, steel plate concrete floors

### Processing and finishing

- Always use clean tap water as mixing water.
- The surface must be clean, dry and free from dust, loose mill scale, loose rust, oil and other conditions prevent good adhesion.
- PROMASPRAY®-C450 (UL Type PMCP2) can be applied to primed and bare steelwork.
- Before application on incompatible primers, the primed steel shall be pretreated with PROMASPRAY®-PSK101 or PROMASPRAY®-SBR Bonding Latex or Promat®-KEYCOAT.
- Respect the specified temperature zones (ambient and substrate temperature between 4°C and 45°C) when applying.
- After curing, the PROMASPRAY®-C450 (Type UL PMCP2) is resistant against rain, rain leakage water, but not against frost.
- PROMASPRAY®-C450 (Type UL PMCP2) shall be applied by authorized applicators.

Please refer to our "Application Guide PROMASPRAY®-C450" for detailed implementation details.

## PROMASPRAY®-C450 (UL TYPE PMCP2)

### Vermiculite & Portland Cement Based Wet Mix Spray

#### Certificates & approvals

- Fire resistance:
  - Tested up to 240 minutes according to European standards in various fire resistant constructions.
  - Tested up to 240 minutes - UL 263 Certified for United States
- Type PMCP2 Spray-Applied Fire Resistive Materials for use in UL Design Nos. D958, D794, G715, J722, N798, N799, P747, P748, P749, P940, S744, S745, S748, Y732, Y733, Y734.
- Fire reaction: Euroclass A1 according to EN 13501-1
- CE marking according to ETA 13/0379
- DoP available at [www.promat-ce.eu](http://www.promat-ce.eu)
- Consult the test report / classification document / assessment report for further details.
- More technical advice is found in our "Manual for applying PROMASPRAY®-C450" for the performance details.

#### Transport and storage

- During transport and storage, the material must be protected and placed free from the ground in a well-ventilated and dry area.
- Storage temperatures are not critical as long as the dry conditions are maintained.
- In a normal, dry environment, the material can be used up to 12 months after the production date.

#### Safety in use

- Wear recommended personal protective equipment.
- A safety data sheet is available for safety details.

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