

Charcoat 200 is an intumescent mastic coating applied for the purposes of fire protection. Charcoat 200 carries a wide range for interior and exterior uses under as combine material with CoreBond FR systems.

RECOMMENDED USES

Listed by Underwriter's Laboratories for both interior and exterior application, Charcoat 200 should be specified wherever long-lasting fireproofing with high abrasion and impact resistance is required together with CoreBond Ceramic Mortar Fire Resistant Systems. Charcoat 200 is ideal for use in a wide variety of commercial, institutional and industrial environments where conventional fireproofing is not sufficiently rugged, lightweight or attractive. Charcoat 200 will withstand weathering and chemical fumes. It is highly recommended for use on offshore drilling platforms, petrochemical plants, power plants and dock facilities:

FEATURES

- Application maintains the contours of the substrate
- Lightweight & Tough.
- Asbestos Free.
- Factory formulated: eliminates job-site mixing.
- Highly resistant to ultraviolet exposure.
- Maintains excellent fire protective properties when exposed to years of extreme abuse and vibration.

APPLICATION

Charcoat 200 is spray applied directly from the shipping container, utilizing standard, heavy-duty, pneumatic spray equipment. Thickness of the application will depend upon the fire endurance rating specified. Charcoat 200 must be applied by qualified, factory-trained, applicators. Installation must be in accordance with manufacturer's printed instructions, and in compliance with specific test requirements.

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	VALUE
DryAppliedDensity	— ASTM	1000 Kg/M ³
Cohesive/AdhesiveStrength	ASTM D4541	>2 MPa (cohesive failure)
CompressiveStrength	ASTM D695	>50 MPa
ModulusofElasticity	ASTM D695	1000 MPa
FlexuralStrength	ASTM D790	>8 MPa
TensileStrength	ASTM D638	>3 MPa
AbrasionResistance	ASTM D1044	0.40 gm. loss1000 cycles
Hardness	SHORE D	>80
Thermal Expansion Coefficient	ASTM D696	1.44 X 10 ⁻⁵ in./in./ o F.
ThermalConductivity	ASTM F433	3.0 BTU in./hr. ft/ o F.
Flame Spread	ASTM E84	15
Smoke Developed	ASTM E84	40
VOC content		248 g/L

COORDINATION WITH COREBOND

Charcoat 200 shall be installed after CoreBond FR systems is in place, but before ducts, pipe work, equipment or other obstructions are installed so that fireproofing can be applied to all exposed steel.

MATERIALS

Intumescent mastic fireproof coating for interior or exterior use shall be Charcoat 200 as manufactured by Gourbech,

OVERCOATING

Overcoating is not required with **Charcoat 200**. However, if an overcoat is required for color coding, aesthetics or additional surface protection against spills, a suitable topcoat shall be used. For unusually severe environments consult GourBech. for recommendations of appropriate topcoats.

INSTALLATION

It is recommends that installation be performed with the use of a pneumatic pump designed for application of heavy-duty, viscous materials and a heavy-duty, mastic spray gun. Compressor shall provide at least 80 CFM (2.3 m³/min.) of air at 100 PSI (7 kg/cm²). Material hose must be 3/4" (19.1 mm) I.D. Nylon or other corrosive resistant type suitable for strong solvents. Gun shall have minimum 3/4" (19.1 mm) material inlet and 3/8" (9.5mm) air inlet ports.

Final wet film thickness application must conform to manufacturer's listed design or to recommendations for specified rating. All surfaces shall be rolled prior to drying of surface film in order to remove unsightly drippings or surface irregularity.

THICKNESS OF APPLICATION

Charcoat 200 shall be applied to the thickness required in accordance with the acceptable test data. Thickness shall be measured on the basis of wet film thickness taken by frequent random probe measurements during application. Although test data measurements are taken on dry film thickness, supervision of application must be undertaken while material is being installed, since final, cured, dry film thickness will reflect shrinkage due to evaporation of occluded solvents.

CLEAN UP

Work area shall be maintained in an orderly condition with good housekeeping conditions prevailing. Upon completion of installation, all debris shall be cleared and removed from jobsite.