

Properl Fireproof

Cementitious, Inorganic Fireproofing Plaster.

Description	It is a cementitious, inorganic fireproofing for structural steel columns, beams, joints, girders, walls, roofs, steel decks, floors, and concrete surfaces. It is approved for fire resistance ratings of up to 4 hours. It complies with ASTM E-136, UL Fire Resistance Y-726, P-743, D-787 ASTM E-119, E-84.
Where to use	• Structural steel columns, beams, joints, and girders. • Walls and roofs. • Steel decking floors. • Concrete surfaces.
Advantages	• Ready to use. • Environment friendly. • Low linear thermal expansion. • 4-6 times more resistance to heat transmission than ordinary plaster. • Non-toxic. • Fire retardant. • Noise reduction. • Durable.
Properties	
Density	900 - 1000 Kg/m ³
Compressive Strength	21 N/mm ²
Melting Point	1260 - 1340 °C
Softening Point	850 - 1100 °C
Shrinkage	< 0.5%
Fire resistance rating	Up to 4 hours
Flame & Smoke spread index	Class A1
Surface Preparation	• Surface must be free of oil grease, loose scale, or other that may impair adhesion. • Sandblasting to remove scale and rust to 1 Sa 2½ according to Swedish standards • Prime with Kemprim M for steel protection. • Gloss paints should be treated with a bonding agent Kembond EP. • Concrete should be roughened and treated with a Bonding Primer. • Clips, hangers, support sleeves, and other attachments required to penetrate the fireproofing shall be in place. • Ducts, piping, and equipment shall not be positioned until fireproofing are complete.
Mixing	• The material should be mixed by machine as a plaster-type mixer. • Water shall be first added to the mixer then the material is added. • Mixing shall continue with low speed until the mix is lump free. • All materials are to be thoroughly wet. • Mixing ratio (7-8 liter of water to 15 kg of Properl Fireproof .

Application	• The material is applied directly to the steel at various rates according to fire rating thickness. • The material is applied with a standard plastering type or continuous mixer pump. • Spray gun with a proper sized orifice and air pressure at the nozzle of approx. (0.14MPa) is to be used. • Where the full-required thickness cannot be applied in one pass, subsequent passes can be applied only after the first coat has been set. • Air and surface temperature shall be > +5 °C.
Theoretical coverage	• 9 -10 Kg/m²/10 mm Thickness. • Min thickness is 10 mm. • Max thickness is 84 mm. • According to fire rating 30minutes-4hours). • Refer to the technical office for detailed information
Packaging	15 Kg sacks
Shelf life & Storage	One year in its sealed packs stored under proper conditions
Health and Safety	• Use goggles-gloves and a breathing mask when applying. • Apply forced ventilation in confined spaces. • Remove splashes from the skin with a hand cleanser or soap and water. • Eye splashes are to be washed with plenty of water.
Additional Information	PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure. PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range for our customer's satisfaction. PROKEM reserves the right to change the properties of its products. All orders are accepted subject to our current term of sale & delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request. PROKEM extends technical services to include after-sales support to assist users in the proper handling of our products.