SPECIFICATION FOR THE APPLICATION OF

FIREBLOCK® 2000

Protection of steel structures and raising of fire resistance category to class R/RE/REI 30/60/90.

The application schedule involves the following phases:

1) **Preparation of surfaces**
   Sandblasting to minimum finish of Sa 2 1/2 (SSPC-SP1O)

2) **Primer application** ("a" or "b" depending on the substrate)
   a) steel:
   application of our WASH PRIMER A + B in the amount of 0.10 l/m^2 (105 g/m^2) equivalent to a dry film thickness of approximately 40/50 μm.

   b) galvanized steel or other zinc-coated surfaces:
   application of our EPOXY PAINTRUST A + B antirust primer (dual component) in the amount of 150 g/m^2 equivalent to a dry film thickness of approximately 50/60 μm.

3) FIREBLOCK®2000
   Application of several coats, separated by the time intervals specified by the relative technical datasheet, of FIREBLOCK® 2000 intumescent paint in the quantity (g/m^2) to be established in accordance with mass and loading situations of the elements to be protected and also in relation to the required degree of fire-resistance (R/RE/REI 30/60/90). The film thickness of FIREBLOCK® 2000 to apply is established on the basis of tabular or analytical assessment and determined by the reference engineering office, which must examine the project beforehand.
   The FIREBLOCK® 2000 can be applied by brush or by roller in the amount of 500 g/m^2 per coat or by spraying in the amount of 700 g/m^2 per coat (dispositive airless without filter with nozzle from 31).

4) Finish
   When the FIREBLOCK® 2000 paint film is fully dry, the surface finish is completed by applying our chlorinated rubber based STARGUM COLOR (pigmented) top coat, designed to impart anti-weathering and water-resistant properties to the intumescent protection. The recommended quantity of STARGUM COLOR is 0.13 l/m^2 (150 g/m^2), equivalent to a dry film thickness of approximately 50/60 μm.

The cost of the entire schedule for the primer, intumescent coat and top coat (if required) is € _____ /m^2 with the exclusion of the application cost, scaffolding, sand blasting or preparation of the substrate.
The consumption for coat and the number of coats depend on the application system adopted and the steel structure to be treated. The painter is advised to check consumption personally and to keep strictly to the prescriptions of our engineering office.

Starkem will supply:
a) certificate issued by the CSI laboratory in Bollate (Milan) with file number CSI0838RF, dated 25/10/1999
b) declaration of conformity of the product supplied
c) additional note prepared by the reference engineering office testifying to the fact that the applied film thickness of FIREBLOCK® 2000 is such as to impart the requested R/RE/REI 30/60/90 fire protection class
d) fire resistance certificate of load-bearing and/or separating construction components prepared by the above-mentioned engineering office as per annex II of Italian Ministerial Decree 4 May 1998, point 1.1, letter a)
e) Starkem will also supply a CATAS certificate testifying to the stability of chemical and physical characteristics through time.
The painter shall produce self-certification using the relevant Starkem form testifying to the correct application of the product as required by annex II of Italian Ministerial Decree 4 May 1998, point 1.1, letter b).