

PART 1 - GENERAL**1.1 SECTION INCLUDES**

- 1.1.1 Fireproofing material

1.2 RELATED SECTIONS

- 1.2.1 Structural steelSection 05100
- 1.2.2 Structural steel and metal fabrications with reference to primer receiving fire protection materialsSection 05120 - 05500
- 1.2.3 Spray-applied fire resistive material.....Section 07811
- 1.2.4 Intumescent fire resistive materialSection 07812
- 1.2.5 Painting.....Section 09900

1.3 REFERENCES

- 1.3.1 CAN4 -S101 M - Standard Methods of Fire Endurance Tests of Building Construction and Materials
- 1.3.2 ANSI/UL 263 – 13TH Edition, ASTM E119-2000 Edition
- 1.3.3 CAN4-S102 M - Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies
- 1.3.4 ULC - List of Equipment and Materials
- 1.3.5 Steel Structures Painting Council (SSPC) Surface Preparation Standards.
- 1.3.6 AWCI Technical Manual 12-B, "Standard Practice for the Testing and Inspection of Field Applied Thin-Film Intumescent Fire-Resistive Materials; an Annotated Guide", Second Edition.

1.4 SUBMITTALS

- 1.4.1 Submit Product data to requirements of Section 01300
- 1.4.2 Submit manufacturer's product data for materials and samples, providing descriptions are sufficient for identification at job site. Include manufacturer's printed instructions for installation and listing design references.

1.5 QUALITY ASSURANCE

- 1.5.1 Manufacturer: Company specializing in manufacturing products of this Section is certified by Underwriters Laboratories of Canada.
- 1.5.2 Applicator: Approved or supervised by the manufacturer of fireproofing materials.
- 1.5.3 Product: Manufactured under appropriate test agency Follow-up Program. Each container or package shall bear the listing company's label or listing mark.

**FIREPROOFING PRODUCTS
SAMPLE SPECIFICATIONS**

1.6 REGULATORY REQUIREMENTS

1.6.1 Conform to latest edition of the National Building Code of Canada or the applicable Provincial Building Code for fire resistance ratings.

1.7 DELIVERY, STORAGE AND HANDLING

1.7.1 Units of 5 gallons per pail.

1.7.2 Deliver and store materials in a dry, protected area, off ground in original, undamaged, sealed containers with manufacturer's labels and seals intact at temperatures between 10°C and 40°C.

1.7.3 Product shelf life is 9 months in original unopened containers from date of packaging when stored above 10°C (50°F).

1.7.4 PROTECT FROM FROST DURING STORAGE AND USE.

1.8 PROJECT/SITE CONDITIONS

1.8.1 Existing Conditions:

- (1) Verify existing conditions and substrates before starting work. Correct unsatisfactory conditions before proceeding.
- (2) Proceed with installation only after steel components are primed with compatible recommended primer.

1.8.2 Environmental requirements:

- (1) Provide masking and drop cloths to prevent contamination of adjacent surfaces by fireproofing material.
- (2) Comply with manufacturing recommendations for temperature and humidity conditions before, during and after installation of fireproofing.

1.9 SEQUENCING AND SCHEDULING

1.9.1 Sequence work to permit installation of fireproofing materials to be installed after adjacent work is complete.

PART 2 - PRODUCTS

2.1 MATERIALS

2.1.1 Designs or Assemblies listed in the ULC Guide. Tested in accordance with the Standard Method of Fire Tests of Building Construction and Materials, CAN/ULC-S101-07 Edition (ANSI/UL 263 – 13th Edition, ASTM E 119-2000 Edition).

Acceptable manufacturers and products:

3M™ FireDam™ Intumescent Coating WB 1000

**FIREPROOFING PRODUCTS
SAMPLE SPECIFICATIONS**

PART 3 - EXECUTION

3.1 EXAMINATION

- 3.1.1 Examine surfaces to receive work of this Section and report any defects which may affect the work of this section.
- 3.1.2 Confirm compatibility of surfaces (primers) to receive fireproofing material.
- 3.1.3 Beginning of installation means acceptance substrate.

3.2 PREPARATION

- 3.2.1 Examine sizes and conditions of steel to be fireproofed to establish correct thickness and installation of materials. Ensure that substrates and surfaces are clean, dry and frost free.
- 3.2.2 Prepare surfaces to receive fireproofing material as per manufacturer's instructions.
- 3.2.3 Mask where necessary to avoid spillage and over coating onto adjoining surfaces; remove stains on adjacent surfaces.

3.3 APPLICATION

The applicator must be trained and qualified and should apply the 3M™ FireDam™ Intumescent Coating WB 1000 in accordance with the Testing Agency listing and the following instructions.

- 3.3.1 The 3M™ FireDam™ Intumescent Coating WB 1000 should not be applied when relative humidity exceeds 80% or the surface to be coated is less than 3C above the dewpoint. The product is recommended to be applied only when temperatures are above 10°C or 50°F.
- 3.3.2 To ensure an even coating thickness, the desired thickness should be achieved by the application of successive coats of no more than 500 microns dft (760 microns wft) per coat.
- 3.3.3 Apply in sufficient thickness to achieve rating to uniform density and texture.
- 3.3.4 The completed dry film thickness should be checked to ensure the required thickness has been applied.
- 3.3.5 When multiple coats of 3M™ FireDam™ Intumescent Coating WB 1000 are required to achieve the prescribed dry film thickness, adequate drying time between the coats should be allowed. At 20°C the minimum overcoating time is typically 4-6 hours. (The time will vary depending upon the prevailing temperature, relative humidity, air movemetn and thickness of material applied.

3.4 CLEANING

- 3.4.1 Clean adjacent surfaces of fireproofing material.

3.5 FIELD QUALITY CONTROL

- 3.5.1 Notify Consultant when ready for inspection.

End of Section

3M

Fire Protection Products

3M Canada Inc.
London, Ontario, Canada
800 265 1840
www.3m.ca/ic

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0808-3087E

