

<IssueDate>



International Fireproof Technology, Inc.
17528 Von Karman Ave. Irvine, CA 92614
Office: 949-975-8588

IFTI SPEC NOTE: This master specification is written to include SPEC NOTES noted as “IFTI Spec Note” in order to assist designers in their decision-making process. SPEC NOTES precede the text to which they apply. This section should serve as a guideline only and should be edited by a knowledgeable person to meet the requirements of each specific project.

Text indicated in bold and by square brackets is optional. Make appropriate decisions and delete the optional text as well as the brackets in the final copy of the specification. Delete or hide the SPEC NOTES in the final version of the document.

This specification section is written to follow the recommendations of the Construction Specifications Institute/Construction Specifications Canada (CSI/CSC) such as MasterFormat™, SectionFormat™, and PageFormat™. It is also written with metric and imperial units of measurement.

DISCLAIMER: To the best of our knowledge, all technical data contained herein is true and accurate as of the date of issuance and subject to change without prior notice. User must contact IFTI to verify correctness before specifying or ordering. We guarantee our products to conform to the quality control standards established by IFTI. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of the product.

NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY IFTI™ EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

PART 1 - GENERAL

IFTI Spec Note: Use the following information as additional wording to Section 07 21 19. Use relevant paragraphs as necessary

1.1 SUMMARY

1. Surface preparation and application of fire-protective intumescent thermal barrier coating to spray-applied polyurethane foam insulation.

1.2 INFORMATIONAL SUBMITTALS

1. Evaluation reports: Submit reports in accordance with **[CCMC#14036-R]** or **[ULC ER39793-01]** showing compliance with applicable building codes.
 1. Submit Evaluation report from accredited independent evaluation agency, indicating compliance of intumescent thermal barrier with specifications for specified performance characteristics and physical properties.

1.3 QUALITY ASSURANCE

1. Qualifications:
 1. **[Thermal Barrier Installer: company specializing in intumescent thermal barrier installations with 3 years documented experience and approved by manufacturer.]**

1.4 DELIVERY, STORAGE, AND HANDLING

1. Thermal Barriers:
 1. Deliver materials to the project in manufacturer's unopened packages, fully identified as to trade name, type and other identifying data. Handle and store in accordance with manufacturer's instructions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

1. Thermal Barrier Coating Manufacturer:
 1. International Fireproof Technology Inc; 17528 Von Karman Ave, Irvine, CA 92614, United States Tel: (949) 975-8588 Web: www.painttoprotect.com; as listed in this Specification.
 2. Substitution Limitations: **[No further substitutions are acceptable.] [Conforming to requirements of Section 01 25 00 - Substitution Procedures]**

<IssueDate>

2.2 INTUMESCENT THERMAL BARRIER COATING SYSTEM

1. Regulatory Requirements:

1. Products shall meet requirements of municipal, or federal authorities having jurisdiction.
2. Intumescent fire protective coating systems shall comply with the following requirements:
 1. Provide rated systems complying with the following requirements based on tests performed by a qualified testing agency acceptable to authorities having jurisdiction:
 2. All systems and products shall bear the classification rating and listing of a qualified testing agency based on designations listed by one of the following:

IFTI Spec Note: Retain only subparagraph(s) below that reference the directories of testing agency or agencies approved by authorities having jurisdiction.

1. CAN/ULC S102
2. CAN/ULC S101
3. CAN/ULC 9705
4. CAN/ULC S145
5. CCMC#14036-R
6. ULC ER39793-01

2. Design and Performance Requirements:

1. Material Compatibility:

1. Provide materials for use within each coating system that are compatible with one another and substrates indicated.
2. Apply all products according to spreading rates recommended in writing by intumescent thermal barrier coating manufacturer.
3. Comply with requirements for fire-protective coating classification and surface-burning characteristics indicated.

2. VOC Content: Products shall comply with VOC limits of authorities having jurisdiction.

3. Bonding Primer: Waterborne, acrylic emulsion, adhesion-promoting bonding primer recommended in writing by manufacturer, compatible with substrate and other materials indicated.

1. Application thickness (WFT): not less than 3 mils, and not more than 5 mils.
2. Acceptable product: "DTM Bonding Primer" by Sherwin Williams; "Gripper" by PPG/Dulux or approved equivalent recommended in writing by intumescent thermal barrier manufacturer.

4. Fire-protective Intumescent Thermal Barrier Coating:

1. Protective coating with following characteristics, specifically formulated for application over polyurethane foam plastics and compatible with insulation:
 1. Finish: Flat
 2. Color: **[Ice Grey] [White] [Dark Grey] [Charcoal Black]**
 3. VOC Content: 19 g/L less water as per EPA24
 4. Shore D Hardness (before topcoat and finish coat are applied): 40.
 5. Solids by Volume: 67%

<IssueDate>

6. Specific Gravity: 1.30 +/- 0.05 g/cc
7. Drying Time @ 25 deg C (77 deg F) and 50% R.H:
 1. To touch: 1-2 hours
 2. To recoat (if required): 2-4 hours
8. Flashpoint: None
9. Reducing or Cleaning: Water
2. Acceptable Product: "DC315" by International Fireproof Technology Inc.
5. Decorative Topcoat (if required):
 1. Interior conditioned spaces: Water based latex-based paint recommended in writing by manufacturer compatible with substrate and other materials indicated.
 1. Application thickness (WFT): not less than 8 mils, and not more than 12 mils.
 2. Acceptable product: "Promar 200", "Dryfall", "A-100 Latex", by Sherwin Williams or approved equivalent recommended in writing by intumescent thermal barrier manufacturer.
6. Protective Topcoat (where required):
 1. Interior unconditioned spaces subject to constant high humidity, condensation or at risk of direct contact with moisture: heavy duty, exterior/interior, VOC compliant, protective topcoat.
 1. Application thickness (WFT): not less than 8 mils, and not more than 12 mils.
 2. Acceptable Product: "Steel Master9500", "Sherwin Williams A-100", "Sher-Cryl" by Sherwin Williams or approved equivalent recommended in writing by topcoat manufacturer.*

*Topcoats have been investigated as to not reduce the fire resistance rating of the specific intumescent coating listed. Authorities Having Jurisdiction, Architects, Engineers or Specifiers should be consulted as to the particular requirements covering the installation and use of any coatings listed.
7. Accessories
 1. Provide accessories to comply with manufacturer's recommendations and to meet fire resistance design and code requirements. Such accessories include, but are not limited to, any required or optional items such as bonding agents, mechanical attachments and application aids.

PART 3 - EXECUTION

3.1 INSTALLATION OF THERMAL BARRIER COATINGS

1. Comply with manufacturer's written instructions applicable to substrates and coating systems indicated. Refer to test report for applicable brand and type of sprayed polyurethane foam to verify compatibility. Provide compatible primer approved by intumescent thermal barrier manufacturer to required surfaces where required by applicable test reports.
2. Apply intumescent thermal barrier coatings according to manufacturer's written instructions and to comply with requirements for fire-protective coating classification and applicable test reports for spray urethane foam insulation.
3. Upon completion of installation, clean excess material, overspray, and debris. Remove and clear such materials from Project site.
4. Ensure patching of, and repair to, intumescent thermal barriers due to damage by other trades, is performed under this section, and paid for by trade responsible for damage.
5. Ensure patching is performed by an applicator with expertise in the installation of intumescent thermal barrier coatings.
6. Continuously monitor WFT by performing checks to ensure correct thicknesses are applied.

3.2 IDENTIFICATION

1. Upon completion, provide job site label or similar method of identifying product used. Affix job site label in a prominent location, clearly indicating applicator's name, contact information, company information, products used, and measured thickness.

END OF SECTION

DISCLAIMER: To the best of our knowledge, all technical data contained herein is true and accurate as of the date of issuance and subject to change without prior notice. User must contact IFTI to verify correctness before specifying or ordering. We guarantee our products to conform to the quality control standards established by IFTI. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY IFTI™ EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.