DESCRIPTION

CAFCO 400 / ISOLATEK Type 400 is a Portland cement based, wet mix, medium density Spray-Applied Fire Resistant Material (SFRM) designed to provide fire protection for structural steel in commercial and high rise construction. The durable surface and Portland cement based formulation make it well suited for applications in either unconditioned or conditioned areas.

CAFCO 400 / ISOLATEK Type 400 is used in areas which may be subject to higher levels of abuse and elevated humidity such as mechanical and electrical rooms, parking garages, elevator shafts, etc. and meets the current IBC high rise bond strength requirement of ≥ 430 psf and 1,000 psf.

In addition to fire resistance, CAFCO 400 / ISOLATEK Type 400 also provides thermal benefits. As a thermal insulator, it is effective in reducing heat loss, particularly when applied to the underside of a roof deck. The R-value added by CAFCO 400 / ISOLATEK Type 400 may also allow a reduction in roof insulation.

PRODUCT ADVANTAGES

• Meets or exceeds industry in-place performance standards
• Portland cement based product is extremely durable and ideal for areas where resistance to physical abuse, abrasion forces and impact is required
• Offers the best fire resistance performance per unit thickness and greatest productivity of any medium density SFRM
• Cost effective, clean and neat in appearance

FEATURES

- Medium density Spray-Applied Fire Resistant Material (SFRM)
- Portland cement based formulation
- Effective in reducing heat loss
- Durable surface
- Resistant to physical abuse and impact

FIRE TEST PERFORMANCE

CAFCO 400 / ISOLATEK Type 400 has been extensively tested for fire resistance and is rated for up to 4 hours for floor assemblies, beams, joists, columns, and roof assemblies.

- Classified by UL in accordance with ANSI/UL 263 (ASTM E119)
- Classified by UL in accordance with CAN/ULC-S101 (ASTM E119)
- Tested in accordance with BS476 Parts 21 & 22 (Assessed in accordance with 5th Edition ASFP Yellow Book)
- Tested in accordance with EN13381 Parts 3 & 4
- Assessed in accordance with AS 1530.4: 2014 / AS4100:1998(R2016) Amendment 1

CAFCO 400 / ISOLATEK Type 400 has also been tested for surface burning characteristics in accordance with ASTM E84 and is rated Class A Flame Spread ......0 Smoke Developed ......0

CODE COMPLIANCES

CAFCO 400 / ISOLATEK Type 400 satisfies the requirements of the following:

- IBC® - INTERNATIONAL BUILDING CODE®
- City of Los Angeles (LADBS, Category 1 Material)
- NBC - National Building Code of Canada
- ICC-ES, AC23 and AC10 Requirements (UL ER13348-01)

MAJOR SPECIFICATIONS

CAFCO 400 / ISOLATEK Type 400 complies with the requirements of the following specifications:

- MasterSpec®, Section 078100 APPLIED FIREPROOFING (AIA)
- MasterFormat® 2014, Section 07 81 00 Applied Fireproofing (CSC,CSI)
- Unified Facilities Guide Specification, UFGS 07 81 00 Spray-Applied Fireproofing (USACE, NAVFAC, AFCEC, NASA)
- Master Construction Specifications, Number 07 81 00 Applied Fireproofing (VA)
- Code of Federal Regulations, Title 40 Protection of the Environment (EPA)
- PBS-P100, Facilities Standards for the Public Buildings Services (GSA)
- Factory Mutual Approved

Thermal Performance

<table>
<thead>
<tr>
<th>Product</th>
<th>Conductivity (k)*</th>
<th>Resistance (R/inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAFCO 400</td>
<td>0.494 BTU in/hr ft°F @ 75°F (0.0712 W/m•K @ 24°C)</td>
<td>0.494</td>
</tr>
<tr>
<td>ISOLATEK Type 400</td>
<td>0.494 BTU in/hr ft°F @ 75°F (0.0712 W/m•K @ 24°C)</td>
<td>0.494</td>
</tr>
</tbody>
</table>

*When tested in accordance with ASTM C518

Physical Performance

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>ASTM Method</th>
<th>Industry Standard Performance*</th>
<th>Laboratory Tested Performance**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>E605</td>
<td>22 pcf (553 kg/m²)</td>
<td>25.3 pcf (405 kg/m²)</td>
</tr>
<tr>
<td>Compressibility</td>
<td>E136</td>
<td>Noncombustible</td>
<td>Noncombustible</td>
</tr>
<tr>
<td>Cohesion/Adhesion</td>
<td>E736</td>
<td>430 psf (20.6 kPa)</td>
<td>8,556 psf (409.7 kPa)</td>
</tr>
<tr>
<td>Deflection</td>
<td>E759</td>
<td>No Cracks or Delaminations</td>
<td>No Cracks or Delaminations</td>
</tr>
<tr>
<td>Bond Impact</td>
<td>E760</td>
<td>No Cracks or Delaminations</td>
<td>No Cracks or Delaminations</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>E761</td>
<td>7,344 psf (351.7 kPa)</td>
<td>22,112 psf (1,058.7 kPa)</td>
</tr>
<tr>
<td>Air Erosion Resistance</td>
<td>E859</td>
<td>Less than 0.025 g/ft² (0.27 g/m²)</td>
<td>0.000 g/ft² (0.000 g/m²)</td>
</tr>
<tr>
<td>Corrosion Resistance</td>
<td>E937</td>
<td>Does Not Promote Corrosion of Steel</td>
<td>Does Not Promote Corrosion of Steel</td>
</tr>
<tr>
<td>Sound Absorption</td>
<td>C423</td>
<td>0.60 NRC 12” (13 mm) on deck and beam</td>
<td>0.60 NRC 12” (13 mm) on deck and beam</td>
</tr>
<tr>
<td>Cone Calorimeter</td>
<td>E1354</td>
<td>No Flaming or Heat Release</td>
<td>No Flaming or Heat Release</td>
</tr>
<tr>
<td>Fungal Resistance</td>
<td>G21</td>
<td>No Growth After 28 Days</td>
<td>Passed</td>
</tr>
</tbody>
</table>

* Standard performance based on industry standards and practices. Refer to UL design for density requirement.
** Values represent independent laboratory tests under controlled conditions.
Isolatek International provides passive fireproofing materials under the CAFCO® and FENDOLITE® trademarks throughout the Americas and under the ISOLATEK® trademark throughout the world.

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The performance data herein reflect our expectations based on tests conducted in accordance with recognized standard methods under controlled conditions. The applicator, general contractor, property owner and/or user must read, understand and follow the directions, specifications and/or recommendations set forth in Isolatek International’s publications concerning use and application of these products, and should not rely merely on the information contained in this Technical Data Sheet. Isolatek International is not responsible for property damage, bodily injuries, consequential damages, or losses of any kind that arise from or are related to the applicator’s general contractor’s, or property owner’s failure to follow the recommendations set forth in Isolatek International’s publications. The sale of these products shall be subject to the Terms and Conditions set forth in the Company’s invoices.

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