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TECHNICAL DATA SHEET

# Hilti FS-ONE MAX

Manufacturer: Hilti (Canada) Corporation

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# HIGH-PERFORMANCE INTUMESCENT FIRESTOP SEALANT FS-ONE MAX

## Product description

- Intumescent (expands when exposed to fire) firestop sealant that helps protect combustible and non-combustible penetrations for up to 4 hours fire rating

## Applications for use

- For effectively sealing most common through penetrations in a variety of base materials
- For use on concrete, masonry and drywall
- Mixed and multiple penetrations
- Metal pipe penetrations: copper, steel and EMT
- Insulated metal pipe penetrations: steel and copper
- Plastic pipe penetrations: closed or vented

## Advantages

- US-produced: "Buy American" compliant
- One product for a variety of common through penetrations
- Cost-effective, easy-to-use solution
- Water-based
- Industry-leading VOC results
- Ethylene glycol-free

## Installation instructions

- See Hilti literature or third-party listings for complete application and installation details

## Technical Data\*

|                                                |                                                                         |
|------------------------------------------------|-------------------------------------------------------------------------|
| Chemical basis                                 | Water-based acrylic dispersion                                          |
| Approx. Density                                | 84.3 lb/ft <sup>3</sup>                                                 |
| Color                                          | Red                                                                     |
| Approx. cure time <sup>1)</sup>                | 2mm / 3 days                                                            |
| Application temperature range <sup>2)</sup>    | 35°F to 104° (1.5°C to 40°C)                                            |
| Temperature resistance range                   | -4°F to 212°F (-20°C to 100°C)                                          |
| Storage Temperature                            | 35°F to 77°F (1.5°C to 25°C)                                            |
| Application temperature                        | 35°F to 104° (1.5°C to 40°C)                                            |
| Tack free time                                 | 20mins (@ 73°F / 50% rel. humidity)                                     |
| Shelf life                                     | 18 months                                                               |
| Temperature resistance range                   | -4°F to 212°F                                                           |
| Mold and mildew performance                    | Class 0 (ASTM G21-13)                                                   |
| Mold and mildew resistant                      | Yes                                                                     |
| Expansion ratio (unrestricted, up to)          | 1:5                                                                     |
| Paintable                                      | Yes                                                                     |
| Chemical resistance                            | Yes                                                                     |
| Electrical resistance                          | Yes                                                                     |
| FBC compatible (Lubrizol)                      | Yes                                                                     |
| Intumescent                                    | Yes                                                                     |
| W-rating                                       | Yes                                                                     |
| M-rated                                        | Yes                                                                     |
| LEED VOC (input)                               | 1 g/L                                                                   |
| LEED V4 Compliant                              | Yes (CDPH v1.2-2017)                                                    |
| STC rating (ASTM E90)                          | 62 (relates to specific construction)                                   |
| Movement                                       | ±7.5%                                                                   |
| Surface burning characteristics (ASTM E 84-14) | Flame Spread: 0<br>Smoke Development: 10                                |
| California State Fire Marshal approval         | CSFM Listing 4485-1200:0108 for FS-ONE MAX Intumescent Firestop Sealant |
| Tested in accordance with                      | ASTM G21, ASTM E 90, CAN/ULC-S115, UL 1479, ASTM E 814, ASTM E84        |



## Order Information

| Designation                   | Qty per package                                 | Item number |
|-------------------------------|-------------------------------------------------|-------------|
| FS-ONE MAX 10oz tube (1 case) | 12x Firestop sealant FS-ONE MAX 10 oz cartridge | 3530249     |
| FS-ONE MAX 20oz foil (1 case) | 25x Firestop sealant FS-ONE MAX 20 oz foil      | 3530250     |
| FS-ONE MAX 10 oz cartridge    | 1x Firestop sealant FS-ONE MAX 10 oz cartridge  | 2101531     |
| FS-ONE MAX 5 gallon pail      | 1x Firestop sealant FS-ONE MAX 5 gallon pail    | 2101533     |

|                          |                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| CLASSIFIED<br>UL<br>C US | FILL, VOID OR CAVITY MATERIAL<br>FOR USE IN THROUGH-PENETRATION<br>FIRESTOP SYSTEMS<br>SEE UL FIRE RESISTANCE DIRECTORY<br>66Y7 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------|



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Chemical resistant



Mold and mildew resistant



### Volume per unit:

- Caulk tube = 10.5 fl. oz (18.9in<sup>3</sup>)
- Foil = 600ml (36.4in<sup>3</sup>)
- Pail = 5gal (1,155in<sup>3</sup>)

<sup>1)</sup> At 75°F (24°C) and 50% relative humidity

<sup>2)</sup> For ambient and surface temperatures between 10°F (-12°C) and 35°F (1.5°C), the following conditions must apply:

- Substrate surfaces are clean and dry (e.g. free of dust, rust, grease, oil, dew, frost, ice, moisture, etc);
- Product maintained above 50°F (10°C) for a minimum of 24 hours prior to application;
- Product will not cure at ambient temperatures below 32°F / 0°C