

## General Statement

### Paintability of Firestop products

In some cases it is necessary to paint or to coat already installed Hilti firestop products. This can have different reasons:

- Optical reasons, so that the installed firestop product is less visible;
- The necessity to improve certain product characteristics, like e.g. water resistance, chemical stability and UV-resistance.

This General Statement shall give guidelines regarding the use of coatings on Hilti firestop products. These guidelines are based on “typical” coatings which do not include special additives or provide special properties. These guidelines only address the potential effects on the fire-resistance performance of the Hilti firestop system.

This General Statement is subject to the following assumptions which must be communicated to the customer when giving a recommendation:

- Coatings must be applied as a thin layer (1 mm max.) on the firestop products
- The firestop product must be fully cured before a layer of coating is applied,
- The coating may peel off over the time – especially if there is movement;
- The coating may show discoloration over the time;
- Customers need to check independently if the relevant coatings are compatible with the other components of the penetration;
- Customers need to check that the country specific approvals do not prohibit the coating of the relevant firestop product.
- Customers must always check the applicable Hilti instructions for use.

The following table summarizes basic recommendations for the choice of compatible coatings and paints. However, these are subject to the above mentioned limitations.

Product Groups	Recommendation
Acrylic Sealants and Coatings: CP 606 / CFS-S ACR, CFS-SP WB, CP 670 / CP 673 / CFS-CT, CP 506, CP 572, CP 605	Water based, solvent free paints as e.g. Acrylics, PVA or Latex paints may be applied. PH-value must be between 6,0 und 8,0. The movement capability of the coating and base material should be similar.
Intumescent Sealants: FS-ONE Max, CFS-FIL CP 611A, CFS-IS	Painting is not recommended. In many approvals painting is prohibited as a layer of paint influences the speed of the intumescent reaction.  If explicitly allowed in the local firestop approval, a thin layer of water based acrylic paint may be applied.
Putty materials: CP 617, CP 618, CP 619T, Putty Disk: CFS-D 1”	No painting possible, as the material is too soft and there is no adhesion

<p>Silicone Sealants: CP 601S, CFS-S SIL, CFS-SP SIL SL + GG</p> <p>Waterstop CFS-EOS WS</p>	<p>Painting is technically impossible, as there is no adhesion of normal paints on silicone sealants. It is also not recommended to apply a second layer of a different silicone as this influences the final movement capability– (mostly) to the negative.</p>
<p>Firestop Foams:</p> <p>CP 620/CFS-F SOL</p> <p>CP 660/CFS-F FX</p>	<p>Water based, solvent free paints as e.g. Acrylics, PVA or Latex paints may be applied. PH-value must be between 6,0 und 8,0.</p> <p>Exception: If plastic pipes run through the penetration, painting is not allowed.</p>
<p>Collars: CP 643N, CP 644, CFS-C</p> <p>Speed Sleeve: CFS-SL GA, CFS-SL RK, CFS-SL SK</p> <p>Drop in Device: CFS-DID</p> <p>Cast in products: CP 680, CFS-CID, CFS-CID MD</p>	<p>Painting is not allowed, as a layer of paint influences the speed of the intumescent reaction.</p> <p>Housings: Metal housings must not be painted.</p> <p>Plastic housings may be painted with water based paints. Only the flange of the speed sleeve may be painted.</p>
<p>Mortar Products: CP 636, CP 637, CP 638</p> <p>Grouts: RM 700, RM 710, RM 800, CB-G EG</p>	<p>Water based epoxy- and acrylate paints may be applied.</p>
<p>Firestop Bricks and Plugs: CFS-BL, CFS-PL</p> <p>Cable Collar: CFS-CC, CFS-RCC</p>	<p>A layer of silicone or water based acrylic paint may be applied.</p> <p>Exception: If plastic pipes run through the penetration, painting is not allowed.</p>
<p>Top-Track Seal:</p> <p>CFS-TTS, CS-TTS-SA, CFS-TTS MD</p> <p>Edge of Slab Quickseal: CFS-EOS QS</p>	<p>Water based, solvent free paints as e.g. Acrylics, PVA or Latex paints may be applied. PH-value must be between 6,0 und 8,0.</p> <p>A thin layer of Spray Paint may be also applied, however, the suitability must be checked at a hidden place. If the foil is compromised this specific Spray Paint must not be used.</p> <p>The adhesion on the foil is limited and the colors may crack if the foil is moved. Also, parts of the paint may also fall off if there is movement.</p> <p>Alternatively, a layer of CP 606 / CP 506 (for SA) may be applied. Also, tapes can be used to cover the joint. Movement of the joint must be possible.</p>
<p>Ablative Cable Coating: CP 679A</p>	<p>Water based, solvent free paints as e.g. Acrylics, PVA or Latex paints may be applied. PH-value must be between 6,0 und 8,0.</p>

Intumescent Cable Coating: CP 678	Painting is not allowed, as a layer of paint influences the intumescent reaction.
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**The mixing of paints and colors directly into the liquid state of the firestop coatings and sealants is not allowed!**

**Summary:**

- Water based, solvent free paints may be used for many Hilti firestop products.
- Intumescent products and their housings must not be painted. Exceptions may be possible, but have to be approved in advance by BU Chemicals, Technical Service
- The mixing of paints and colors directly onto Firestop coatings and sealants is not allowed.
- Customers must be informed about the limitations listed above

Please contact the team BU Fire Protection, Technical Service for further details.

BU Fire Protection, Technical Service

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*Please note that this General Statement is only a summary and the respective instructions for use and product information of the firestop products and systems concerned must be consulted prior to use. Values are only valid at the time of drafting this General Statement and may be subject to changes due to product developments. Please contact BU Fire Protection, Technical Service in case of any doubts to avoid any misuse.*