



## Approvals/Listings:



See Victaulic Publication 10.01 for more details.

## Coatings and Materials:

Victaulic® Firelock® sprinklers are offered in a variety of materials and optional coatings to increase their resistance to corrosion. White and black paint, wax, Nickel-Teflon<sup>1</sup> and VC-250 are all UL/FM/VdS/LPCB approved coatings or finishes and are available on Victaulic FireLock sprinkler frames V10, V12, V24, V27, V34, and V36. VC-250 is UL and FM approved as a corrosion resistant coating, while VdS and LPCB have recognized and approved VC-250 as an alternate coating. Please refer to the particular agency website for additional details.

### VC-250:

VC-250 is an optional, corrosion-resistant coating developed by Victaulic to increase the protection of FireLock sprinklers from visual and physical changes such as exposure to weather or exposure to areas that may be specified as chemical environments. When applied, this nickel based, multi-layer coating fully encompasses each Firelock sprinkler to provide increased corrosion resistance while maintaining functionality.

<sup>1</sup> Teflon is a registered trademark of Dupont Corporation



### WARNING

- **Coating selection is the responsibility of the specifying engineer based on as installed conditions. The durability/longevity of any coating in a particular application is based on multiple factors and selection of the coating should be determined by an individual familiar with the application and the environmental factors.**

**Final determination of the coating rests with the engineer of record, property owner or facility manager.**

## Installation Considerations:

Visual inspection is recommended for corrosion resistant sprinklers before and after installation, to verify the integrity of the corrosion resistant coating. Thereafter, inspect sprinklers on a regular basis for corrosion, mechanical damage, obstructions, etc. according to NFPA 25, and as required by local regulations or codes.

**For proper installation, maintenance and care instructions please follow the [I-40](#) instruction manual. For additional information regarding the coating properties, chemical resistance, or coating performance please contact Victaulic technical services at 1-800-PickVic.**

## Visual Examination Conditions:

UL corrosion testing was conducted according to the methods outlined in UL199. FM Global testing was conducted in accordance with the methods specified in FM 2000 sprinkler testing standard under the corrosion resistance section.

Additional testing of commonly found chemicals at selected concentrations was performed to provide guidance on how the coated sprinklers can be visually affected. The testing was performed at an independent laboratory with accreditation by the American Association for Laboratory Accreditation (A2LA) following ASTM D1308 test protocols. ASTM D1308 is a testing method for the effect of chemicals on clear and pigmented organic finishes, resulting in any objectionable alteration in the surface, such as discoloration, change in gloss, blistering, softening, swelling, loss of adhesion, or special phenomena. These test methods provide the means by which the relative performance of coating systems may be evaluated. The results detailed in the table on the following page were, per the test method, following 48 hours of exposure and the samples being rinsed.

The chemicals chosen were a representative sample of chemicals commonly found in many different industries and environments. For example, indoor swimming pools are often related with chlorine and hydrochloric acid, water treatment facilities and paper pulp mills may have hydrogen peroxide rich atmospheres, sodium hydroxide can be used in cleaners for the food and beverage industry, and sodium chloride is found along coastal salt water areas. **The concentrations were for test purposes only and may not be representative of actual concentration levels where the sprinklers would be installed.**

**Visual Examination Results:**

The information in this table is the result of visual examinations only after the tests were conducted.

Tested according to ASTM D1308 spot test method.					
Chemical	Brass	Chrome	Nickel-Teflon <sup>1</sup>	VC-250	Stainless Steel
10% Hydrogen Peroxide	C	NC	C	NC	NC
10% Sodium Hydroxide	C	NC	C	NC	C
3% Acetic Acid	C	NC	NC	NC	NC
5% Ammonia	C	NC	C	NC	NC
10% Hydrochloric Acid	C	C	NC	NC	NC
10% Hydrofluoric Acid	C	C	C	C	C
10% Nitric Acid	C	NC	C	NC	C
10% Phosphoric Acid	C	NC	C	C	NC
5% Sodium Chloride	C	C	NC	NC	NC
2.0 L Sulfur Dioxide	NC	NC	NC	NC	NC
10% Sulfuric Acid	C	NC	C	C	NC

Ratings based on testing at an ambient room temperature of ~73°F (22.8°C)

Report observations only. No Pass/Fail criteria provided.

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Key	
NC	No Visual Change During Exposure
C	Visual Change During Exposure

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**Installation**

Reference should always be made to the [I-40 Victaulic FireLock® Automatic Sprinklers Installation and Maintenance Handbook](#) for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at [www.victaulicfire.com](http://www.victaulicfire.com).

**Warranty**

Refer to the Warranty section of the current Price List or contact Victaulic for details.

**Note**

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

**Trademarks**

Victaulic® and Firelock® are registered trademarks of Victaulic Company.