

Product Description: FEUCHAR SL 901 is a single component, solvent based intumescent coating to provide fire resistance to steel structure elements beam, columns, bulkheads, underdecks and risers.

FEUCHAR SL 901 meets the requirement of VOC emissions and content requirement to contribute LEED v4 EQ credit, hence recommended to use in Green Building Projects.

Intended Uses: It is designed to provide fire protection to structural steel beam, columns, bulkheads, underdecks and risers in industrial, petrochemical, oil and gas, offshore and refining industries with better aesthetic appeal. FEUCHAR SL 901 is designed to be used in corrosive environment of C4 category (ISO 12944-2) with top coat, for internal (C1) environments, top coat is optional.

Technical Specification:

Parameters	Values
Fire Rating (Cellulosic Fire)	Up to 120 minutes, According to BS 476 Part 21
Volume Solid	75% $\pm$ 2% measured using ISO 3233
Gloss	Matt
Color	White
VOC	280 g/L
Specific Gravity	1.33 kg/l

Film Thickness

The recommended film thickness can be achieved by airless spray or brush application, the maximum recommended thickness (WFT) is 1000-micron, thicker coats also be applied but it can create sagging issue.

Coverage

Theoretical: 1m²/litre at 750 micron DFT| 40 sq.ft/US gallon at 30 mils DFT

Practical: Consider the loss factor according to the application methodology

Surface Preparation

The surfaces to be coated shall be clean, undamaged and dry. The surfaces shall be free from mud, oil and grease.

In case of oil and grease on substrate, the suitable solvent can be used for cleaning.

The Steel Surface must be treated for anticorrosive protection, means primer application, the type & thickness of primer is depending upon corrosion category. Generally, it is 50-100 micron.

System Compatibility

Based on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product.

FEUCHAR SL 901 is compatible with Top coat such as Epoxy and Polyurethane coatings.

Care must be taken to provide recommended timings for the complete dry of previous coat for next coat.

Note: To ensure fire performance & better results, primers and topcoats must be compatible with FEUCHAR SL 901, the use of primer and topcoat must be with the consultation of FEUKEM Technical Team.

Application Conditions

FEUCHAR SL 901 is recommended for application and use on dry protected substrate only.

If base coat is allowed to get wet, it is likely to be damaged – blistering and wrinkling may occur.

FEUCHAR SL 901 should only be applied when the air and substate temperature are above 5 °C and below 55 °C Relative humidity should be below 85% for successful application.

Steel surface temperature should be a minimum of 3 °C above the dew point, Ensure the substrate is dry and free from contact with rain or condensation during the application and drying of FEUCHAR SL 901.

Please note that rain may cause surface patterning if the material has not formed a skin. Heavy rain or water running over the surface can damage recently applied (6-8 hours) coating and hence it should be protected if this is a potential risk.

Application Guidelines

Method of application	Airless Spray, brush
Thinner	FEUCHAR SL 901 is ready to use, thinner is not required as it may affect sag resistance
Cleaning	Use Thinner PU 17 or equivalent, refer local regulations before using thinner.
Mixing	Single Pack
Airless Spray	Tip Range 0.48-0.58 mm

Drying & Curing Time

Temperature	Touch dry	Hard dry	Dry to overcoat
10 °C	60 minutes	24 hours	8 hours
25 °C	40 minutes	20 hours	6 hours
40 °C	30 minutes	16 hours	4 hours

All drying times have been measured at a wet film thickness of 1000 µm under controlled temperature & relative humidity of 60%.

Safety Precautions

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to FEUKEM technical documentation.

Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product.

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

For further details, please refer **FEUCHAR SL 901 MSDC**.

Packaging

Unit Size: 20 L MS drum

Shipping weight: 28.1 kg

Storage

Keep the containers in a dry, cool, well-ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

When storing and transporting, the temperature must be between 3 °C and 40 °C. Outside of this, it is advisable to use climatic control. Protect from freezing at all times during storage and transport.

Shelf Life

12 months from date of manufacturing, subjected it is stored as per FEUKEM recommendations.

Disclaimer

All information is given in good faith on the result gained from experience and test. However, all recommendation or suggestions are made without guarantee since supplier does not have any control on site conditions and its uses. Colour variation may be possible on surface.