
Product Description: FEUBOND 500 is a high-performance, water-based acrylic emulsion formulated as a pH-control sealer and bonding key coat for cementitious passive fire protection systems.

It is specifically designed for application over alkali-sensitive or alkali-reactive primers on structural steel, prior to the application of cementitious fireproofing. FEUBOND 500 forms a continuous barrier layer that helps control the interaction between the alkaline cementitious material and the underlying primer, while enhancing adhesion of the fireproofing to the primed substrate.

FEUBOND 500 contributes to the long-term adhesion, durability and performance of the complete passive fire protection system. It is a single-component, ready-to-use, water-based and low-VOC product suitable for application by brush, roller or spray.

Intended Uses: It is designed to be used as pH-control sealer /bonding agent for steel beam, columns, bulkheads, underdecks and risers in industrial, petrochemical, oil and gas, offshore and refining industries with excellent durability.

Performance Data:

Parameters	Test Results
Finish	Clear & smooth
Specific Gravity (kg/l)	1.2-1.3
pH	4-5

Color

Slight Yellow

Finish

Smooth

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.

Structures with primer coat

FEUBOND 500 can be applied to already primed surface, even if applied primer is of alkali nature.

System Compatibility

FEUBOND 500 is compatible with epoxy-based primers, red oxide & cement-based products.

Application Conditions

FEUBOND 500 is recommended for application and use on dry protected substrate only.

FEUBOND 500 should only be applied when the air and substrate 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 FEUBOND 100.

Application Guidelines

It is recommended to apply FEUBOND 500 on the steel surface immediately after the surface cleaning process, which should include the removal of all dust, oil, grease, rust, and other contaminants to ensure optimal adhesion.

After application, FEUBOND 500 should be allowed to dry for 10-12 hours before the cementitious fireproofing material is applied.

Mixing

FEUBOND 500 shall be mixed with water up to 5%.

Packaging

20 Liter

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 FEUBOND 500MSDC.

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 tests. However, all recommendations or suggestions are made without guarantee since supplier does not have any control on site conditions and its uses. Color variation may be possible on the surface