



INTELLIGENT MEMBRANES

FRED PRODUCT SHEET | 2021

▶ WATERBASED NON COMBUSTIBLE INTUMESCENT COATING FOR USE ON STEEL, WOOD, INSULATION AND MINERAL SUBSTRATES

DESCRIPTION

FRED is a water-borne intumescent coating that, once dried, will stop or strongly retard the passage of fire through the substrate it is applied on. FRED FLAME has inhibited the formation of toxic fumes generated by fires of insulation, plastics, etc.

Applied on concrete substrates, it reduces spalling and loss of structural integrity.

FRED FLAME is certified class A, S1, D0

FRED intumescent coating can be used on steel, wooden, mineral, and insulation substrates and is applied by airless spray, roller, or paintbrush. FRED is used inside. In case of external application, it should be coated with a fire retarding flexible coating such as PASSIVE PURPLE EXTERNAL or

Local building regulations need to be followed which is not the responsibility of the manufacturer of this product, namely INTELLIGENT MEMBRANES

ADVANTAGES

- Low to zero ignitability
- Low heat release
- High fire barrier capacities due to formation of raised charring and hence increase by 1000% when exposed to fire
- Dries quickly
- Can be used on most common construction materials such as concrete, steel and polyurethane foam
- No primer needed on most surfaces
- VOC/solvent free

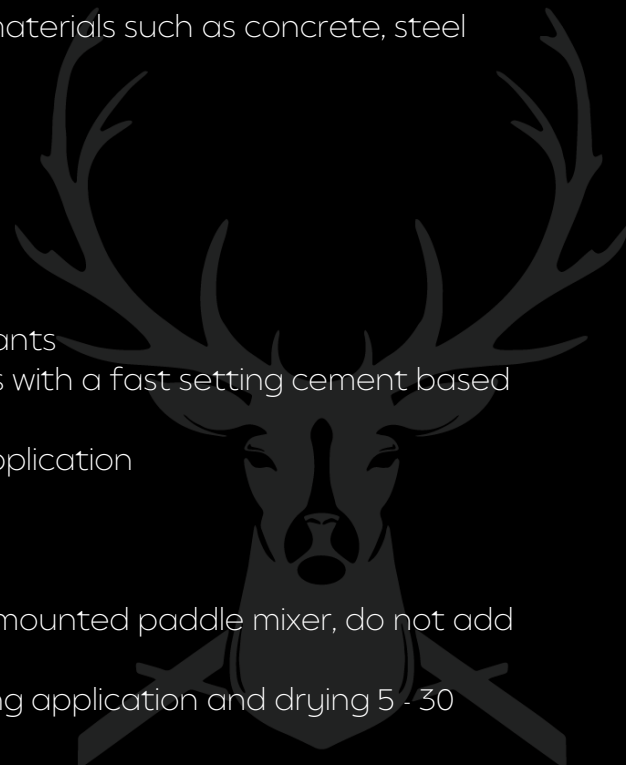
APPLICATION

Preparation -

- Remove dust, loose parts and surface pollutants
- Apply on a closed surface; fill holes and joints with a fast setting cement based product
- Dry substrates shall be moistened prior to application
- Porous or old substrates, apply

Application method -

- Mix FRED product well before use with a drill mounted paddle mixer, do not add water or solvents
- Surface and environment temperature during application and drying 5 - 30 degrees



- Apply FRED with an airless paint spray device, paint roller or paintbrush, in one or two layers at a consumption of 0,6 to 2kg/m² depending requested fire resistance. Advised spray tips: 531 / 421
- the drying time of FRED varies between 4 to 24 hours in normal conditions.
- clean tools with water

Finish

- FRED is UV RESISTANT but not intended for outside use without protection
- Proposed finishes on FRED
- Wooden substrates may require a finish on FRED to block staining
- For other types of finishes kindly consult us

CHARACTERISTICS

- Form: White liquid
- Consumption: 0,6 kg/m²
- Density: 1,35 kg/litre (+/- 0,1)
- pH: 9,0
- Solids (%): 70% (+/-2)
- Adhesion: > 0,5 N/mm²
- Fire Class (EN13501): A, s1, d0

PACKAGING

13 Kg pails (pallet 44 x 13kg)

STORAGE

5 - 20 degrees stored dry, out of direct sunlight,
conservation: 12 months from date of production, original
unopened packaging

SAFETY

Consult the SDS safety data sheet prior to applying FRED



▶ DATE OF THIS EDITION: 12/11/2021

Our general conditions of sale apply. This document does not have a contractual value. This technical data sheet replaces and cancels the previous edition. The information given in this sheet has the purpose to inform and advise you. At every moment, this sheet can be adapted because of technical evolution. All information is given in good faith and without any warranty. The application use and processing of these products are beyond our control and therefore the entire responsibility of the user/client/applicator. The user of the product must test the product's suitability and apply for the intended purpose. Established liability if for any reason is always limited to the value of the goods supplied by INTELLIGENT MEMBRANES. The products and systems are manufactured under total quality management. INTELLIGENT MEMBRANES reserve the right to change the properties of its products. User must always refer to the most recent issue of the local Product Data Sheet, copies of which will be supplied on request.





INTELLIGENT MEMBRANES

Clopton Farm, Croydon, Cambridgeshire, SG8 0EF

www.intelligentmembranes.co.uk

FOLLOW US ONLINE



WWW.INTELLIGENTMEMBRANES.CO.UK