



Description

Nilifam-631-FP is designed for use as a fire retardant paint available in white color. The product is ideally suited for metal and structure, interior and exterior carbon steel surfaces with good color and fire retardancy.

Nilifam-631-FP must be applied as topcoat.

Recommended use

Adhesion	Good to both primed and clean surfaces.
Corrosion resistance	Good in mild to medium environments.
Protection from temperature increasing	Dry: Maximum 800°C

Physical constants

Colours/shade:	White /9003
Finish:	Matt
Volume solids, %:	75±5
Theoretical spreading rate:	0.38 m ² /lit-1000 Mic.
Flash point:	38°C
Specific gravity:	1.45±0.15 Kg/l
Dry to touch:	Max. 4 hours at 20°C
(Initial)	
Hardness:	72 hours at 20°C
Fully cured:	15 days at 20°C
VOC content:	Max. 10 g/l

Application details

Conditions	Do not apply when relative humidity exceeds 80% or when the surface to be coated is less than 3°C above the dew point.	
Method	Airless spray/ Brush	
Thinner (max. vol.)	5/0	
Spray setting		
Pump ratio minimum	30:1	
Tip size	0.017"-0.019"	1.8 mm
Tip pressure	150 bar/2200 Psi	4-5 bar
	(Airless spray data are indicative and subject to adjustment)	
Cleaning of tools	(Water: Butyl Glycol)	
Indicated film thickness, dry	75 microns	
Indicated film thickness, wet	100 microns	



Surface preparation

Steel surface should ideally be abrasive blast cleaning to minimum Sa 2½. The surface must be completely clean and dry prior to application. And its temperature must be above the dew point to avoid condensation

Packaging (typical)

	Mass (Kg)	Size of containers (litres)
Nilifire	18	20

Storage & handling

The product must be stored in accordance with national regulations. 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.

Shelf-life

Nilifire	6 month(s)
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In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

Remarks

Preceding Coat	Epoxy primer coat such as NF-114-M4.
Subsequent Coat	None
Film thickness	May be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate and may influence drying time and recoating intervals. Normal range is 1000 microns/400 mils.
Thinning Recoating/Drying/ Curing Time	

Physical data versus temperatures:

Surface temperature	5°C/41°F	10°C/50°F	20°C/68°F	30°C/86°F	
Dry to touch approx.	10 hours	6 hours	4 hours	3 hours.	
Resist condensing humidity/ light showers after	4 days	2 days	36 hours	12 hours	
Fully cured		30 days	15 days	10 days	
Recoating interval with epoxy intermediate	Min	24 hours	16 hours	8 hours	6 hours
	Max	None	None	None	None

Caution

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 Nilifam's 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. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Nilifam representative for approval before commencing the work.

Safety

Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult Nilifam material safety data sheets and follow all local and national safety regulations. Harmful or fatal if swallowed; immediately seek medical assistance. Avoid inhalations of possible solvent vapors or paint mist, as well as paint contact with skin and eyes. Apply only on well-ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. Always take precautions against the risks of fire and explosions