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FS700

Dynamic Acrylic Sealant

KEY BENEFITS SUMMARY

- Tested in accordance with EN1366-4 up to 3 hours Classification EN 13501:2007
- FS700 can provide up to 180 minutes fire resistance
- Provides a fire, acoustic, smoke and moisture resistant seal between floor slab and curtain wall interface or head of wall movement joint
- Can accommodate building movement of up to 50%
- Suitable for spray or brush application. Up to 5 times faster than conventional sealing

PRODUCT INFORMATION

Description

Nullifire FS700 is a single component, water based acrylic sealant.

Usage / Purpose

The product is designed to be used in conjunction with a light weight mineral fibre material to form a seal around the perimeter of the building envelope, at the junction between floor slab and curtain wall. FS700 provides a fire, acoustic, smoke and moisture resistant seal between floors whilst allowing for building movement of up to 50%.

Colour

White

Packaging

20 kg pail

Availability

Direct from Nullifire (see back of leaflet for address and telephone details).

USAGE GUIDELINES

Necessary Tools

Pallet knife, mineral fibre and suitable brush. If spraying, suitable spray equipment.

Preparation

- Clean all surfaces of loose particles, moisture, oils, grease and corrosive materials. Ensure the substrate is compatible with FS700.
- Ensure that any damage to the substrate has been repaired and site and weather conditions are within specification.
- If required, check that correct spray equipment is available, functioning and free from contaminants or dried material.
- Surface or substrate temperature should be 5°C or above at the time of application. For lower temperature application, contact Technical Services prior to use.

Installation

- If FS700 is exposed to elevated levels of moisture before fully cured, it is likely to be damaged. It is recommended that contact with rain or condensation during the application and drying of FS700 should be avoided. Moisture resistance is only achieved if FS700 is fully dried. Relative humidity should be below 80% for successful application.
- Mineral fibre backing material is to be utilised, compressed between the associated substrates to provide a level surface for application of FS700 (150 mm deep).

Mineral Fibre Guidance

Minimum melting point : 1000°C
 Minimum density : 60 kg/m³
 Minimum compression : 25%

Application

FS700 is supplied ready for use and must not be thinned but should be thoroughly stirred prior to use.

Airless Spraying Method:

- FS700 should be applied to a minimum WFT of 3.0 mm in a spray coat comprising several passes. Once fully cured a 3.0 mm WFT will achieve a 1.7 mm DFT. An overlap of 25 mm should be achieved on to both associated substrates.
- Airless spray equipment is recommended and should match these guidelines:

Op. Pressure: > 3300 psi (210 kg/cm²)
 Flow Rate > 4.7 l/min
 Tip Size 19 – 23 thou
 Fan Angle: 20° – 40°
 Hose Diameter: > 10 mm (3/8") internal
 Hose Length: max. 30 metres

Brush Application:

- Apply FS700 using a 'laying on' technique. Maximum wet film per coat when applied using a brush is 3.0 mm. Using a roller for application is not recommended.

Cleaning

- Excess sealant can be cleaned or removed with soapy water before sealant skins. Clean spray equipment with soapy water and as per manufacturer instructions

Thickness Requirements

- During application, measure the wet film thickness frequently with the WFT gauge to ensure the correct thickness is being applied.
- To use the gauge, insert the teeth into the wet FS700. The last tooth to be coated indicates the wet film thickness achieved, take into account flexibility of mineral fibre.



FS700

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PERFORMANCE

Orientation	Mineral Fibre	Assessed Gap Widths	Integrity (minutes)	Insulation (minutes)
WALL	60 kg/m ³ , 150 mm deep, 25% compression	Up to 150	180	120
		151 to 400	60	60
Up to 150*		180	30	
FLOOR		Up to 200	180	180
		201 to 400	180	60

* denotes structural steel face

- In the event of under application, adjustments to the loading rates of any subsequent coats will be required.

Drying Times

- At 25°C and 50% RH, FS700 is tack free in 60 minutes and is fully cured between 3 – 5 days at 20°C
- Brushing can add about 20% to drying time (compared to spraying).
- As the temperature decreases the drying time increases, generally one additional day for every 10°C decrease in temperature.
- These figures are based on constant conditions, fluctuations up or down will give variations to the drying time. If overnight condensation causes wetting a further full drying period should be allowed.

Nullifire FS700 is required to be a minimum 1.70 mm thick after drying.

Maintenance

No maintenance required after installation. Routine inspection recommended to ensure no damage.

Coverage

Joint Width (mm)	Overlap 25 mm to Substrate (mm)	Length of Seal per 19 litres (m)
50	100	63
100	150	42
150	200	31
200	250	25
300	350	18
400	450	14

Seal length (m) per 19 litres = $19/[1000 \times \text{joint width (m)} \times 0.003(\text{m})]$

Storage

Store between +5°C and +30°C in dry conditions.

Shelf Life

6 months when stored as recommended. Shelf life will be reduced if stored at temperatures above 25°C.

Health & Safety Precautions

Product Safety Data Sheet must be read and understood before use.

Technical Service

Nullifire has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 02476 855000.

Guarantee / Warranty

This information is offered in good faith but without guarantee or liability. In cases of doubt, users should consult with relevant authority. Information given herein is supplied for your guidance only and is based upon the results of controlled tests and experience obtained in the application of the product referred to by Nullifire. As the supplier only, Nullifire has no control over the method or conditions of application of the product and consequently no warranties expressed or implied are intended to be given as to the coverage or performance of the products mentioned or referred to herein and no liability will be excepted for any loss, damage or physical injury resulting from the use or application of the information, data or products mentioned or referred to herein.