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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
- Reaction to fire Class E
- Accommodates movement up to 12½%
- Acoustics up to 33 dB
- Provides a fire, acoustic, smoke between floor slab or head of wall movement joint.
- Waterborne single pack system

PRODUCT INFORMATION

Description

FS700 Flexible Sealer is a waterborne single pack acrylic based sealant used to form linear gap seals where gaps are present in floor and wall constructions.

Usage / Purpose

The product is designed to be used in conjunction with a light weight mineral fibre material to form a fire seal at the junction between floor slab and head of wall. The intended use of system FS700 Flexible Acrylic Sealer is to reinstate the fire resistance performance of gaps in and joints between joints in rigid floor and wall constructions.

SUBSTRATES

- Aerated Concrete/Concrete Joints
- Block/Masonry/Aerated
- Concrete/Concrete
- Mild Steel

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. Some 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 minimum).

Mineral Fibre Guidance

Minimum melting point : 1000°C
 Minimum density : 60 kg/m³
 Minimum compression : 20%

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



FS700

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

PERFORMANCE DATA

Fire performance in accordance with EN1366-4, EN1366-4, Classification 13501-2:2007 + A1: 2009, ETAG-026, Sound EN10140:2-2010.

Fire resistance classifications: The following fire protection classes are used: E = integrity, i.e. ability to isolate smoke gases, I = insulation, i.e. ability to prevent heat spread, AAC = Aerated Concrete, H = Horizontal, V = Vertical, W = Widths, X = No specific movement tested, F = Type of splices - Field

Substrates	Seal Orientation	Classification
FS700 Flexible Acrylic Sealer at 3 mm DFT to fire resistance classification in rigid floor constructions (150 mm or thicker)		
Aerated Concrete/Concrete	Floor	EI 180 – H – X – F – W 00 to 200
FS700 Flexible Acrylic Sealer at 3 mm DFT rigid wall constructions according to 2.2.1 with wall thickness of minimum 150 mm		
Block/Masonry/Aerated Concrete/Concrete	Wall	E 180 – V – X – F – W 00 to 150 EI 120 – V – X – F – W 00 to 150
Mild Steel		E 180 – V – X – F – W 00 to 150 EI 30 – V – X – F – W 00 to 150

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 01942 251400.

Guarantee / Warranty

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