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| CAW P10 | | | |
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| January 2014 | | | |

FF197

Gun Grade Fire Rated PU Foam

KEY BENEFITS SUMMARY

- Certified to the latest British and European standards EN 1366-4, DIN 4102 Pt 1 (B1) and EN 13501: Pt 2
- Cures to form a semi-rigid foam that is able to accommodate some degree of movement of the joint
- Acts as an effective fire seal for up to 4 hours (BS EN 1366-4) when used with Nullifire M701 intumescent acrylic or M703 silicone sealant

PRODUCT INFORMATION

Description

Nullifire FF197 is a modified, single component, fire rated polyurethane foam.

Usage / Purpose

Nullifire FF197 is used to seal linear gaps throughout the fire rated areas of a building.

LIMITATIONS

As with all PU foams, Nullifire FF197 will not adhere to Teflon, polyethylene or silicone coated surfaces. The cured foam is adversely affected by UV light and should be covered with a suitable sealant such as Nullifire M703 Silicone or M701 Intumescent Acrylic.

Colour

Grey

Packaging

880 ml pressurised canister (12 per box)

Availability

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

USAGE GUIDELINES

Necessary Tools

Cutting knife, tape for masking of adjacent areas. illbruck PU solvent cleaner to clear gun after use. Unstable areas may need to be clamped or secured during curing.

Preparation

- Always carry out a test to confirm compatibility prior to use.
- Protect floor coverings with paper or a plastic film.
- The surfaces must be dry, solid, stable.
- Remove all loose particles, dust and grease.
- A speedier cure can be attained by moistening the substrates if needed.

Application

- Shake the canister vigorously at least 20 times. Remove the protective cap and screw onto the illbruck PU foam gun.
- Invert can and direct nozzle into gap and press gently on the adaptor to establish the correct flow rate.
- Fill approximately half of the required depth of the cavity because the foam will expand.
- On horizontal surfaces always work away from the extruding bead and work upwards on all vertical surfaces.
- The foam is firmly set in approximately 1 hour (depending on temperature and humidity) when any excess can be trimmed with a sharp blade.

Cleaning

Clean the gun by removing the foam canister and replacing with a can of illbruck PU foam cleaner. Remove excess foam immediately with illbruck PU foam cleaner or acetone. Ensure surface is solvent resistant before cleaning. Cured foam can only be removed mechanically.

Storage

Store between +5°C and +25°C in dry conditions.

Shelf Life

9 months when stored in its original unopened containers.

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.



Nullifire[®]

TECHNICAL INFORMATION

| Property | Test Method | Result |
|-----------------------------|---|--|
| Composition | | Polyurethane foam |
| Fire Performance* | In accordance with BS EN 1366-4 EN 13501: part 2: 2007 | Up to 4 hours |
| Classification | DIN4102: Part 1 | B1 |
| Canister Temperature Limits | | +10°C to +30°C |
| Ambient Temperature Limits | | +5°C to +35°C |
| Density | LAB015 - 3 cm in width at 23°C and 50% RH | 30 - 40 kg/m ³ |
| Tack Free Time | LAB014 - 3 cm in width at 23°C and 50% RH | 10 minutes |
| Cutting Time | LAB014 - 3 cm in width at 23°C and 50% RH | 60 minutes |
| Loading Time | | 24 hours |
| Tensile Strength | DIN 53455 | 103 kPa |
| Shear Strength | DIN 53422 | 80 kPa |
| Thermal Conductivity | EN 12667 | 36 mW/m.K |
| Temperature Resistance | | Short Term: -40°C to +130°C Long Term: -40°C to +90°C |

*Please note that achievable fire rating depends upon specific joint configuration

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.

PERFORMANCE

| Tested Gap Widths (mm) | Substrate Depth (mm) | Installation | Integrity (minutes) | Insulation (minutes) |
|------------------------|---|--|---------------------|----------------------|
| 10 | Concrete - Concrete 100 mm | 100 mm deep PU Foam | 90 | 90 |
| 20 | | | 60 | 60 |
| 30 | | | 45 | 45 |
| 10 | | 1:1 ratio M701 back filled with PU Foam | 240 | 240 |
| 20 | | | 120 | 120 |
| 10 | | | 240 | 240 |
| 20 | 1:1 ratio M703 back filled with PU Foam | 240 | 180 | |
| 30 | | 240 | 180 | |
| 10 | | 240 | 240 | |
| 20 | Concrete - Concrete 200 mm | 200 mm deep PU Foam | 180 | 180 |
| 30 | | | 120 | 120 |
| 10 | | 1:1 ratio M701/M703 back filled with PU Foam | 240 | 240 |
| 10 | | | 240 | 240 |

