

**Product Information:**

# Fire Guard NBS PU Foam 586

**Fire retardant polyurethane foam**

**General description & application:**

Fire Guard NBS PU Foam 586 for NBS-gun is a fire retardant 1-component polyurethane foam for professional use.

The product has good adhesion and insulation properties. By use of the gun a controlled expansion is reached, which makes it easy to apply the right amount.

Fire Guard NBS PU Foam 586 is used for passive fire protection of linear joints around fire doors, windows and between concrete elements.

Fire Guard NBS PU Foam 586 is tested according to EN 1366-4: 2006 + A1 2010, **linear joint seal**.



**Physical / chemical data:**

**Uncured foam:**

Type: 1-component Polyurethane foam  
 Shelf life: 12 months in unopened packaging if stored cool and dry.  
 Production date can be found on the can. Stored standing in upright position.

**Packaging:**

Item no.	Colour	Size
7646	Red	750 ml can

**Cured foam:**

Paintable: Yes  
 Thermal conductivity: 0.04 W/m °C  
 Sound reduction index: 60 dB (EN ISO 10140)  
 Fire class: B1 (DIN 4102)  
 Temperatures: Can withstand temperatures from -50 °C to +90 °C at normal use.  
 Avoid direct sunlight (UV radiation)



## Directions for use:

- Dimensions:** See table 01 and 02 on page 3.
- Surface preparation:** The surfaces must be cleaned for oils, dirt and the like. Make sure to moist the surfaces before application of the foam, as curing is only occurring at the presence of moisture.
- Application:** Use gloves and safety glasses. Shake the NBS-gun with the can mounted 20 times. The requested spray fan is adjusted using the dosing screw on the bag of the gun.
- The joint repair area is only filled partly as the foam expands by 30% readily after application.
- The mounted can, can be used and stored for one day. Always demount an empty can. After a longer period without use, it is recommended to clean the gun with a cleaning liquid.
- Empty the can completely before mounting a new.
- Application temperature:** +5 °C to +30 °C. Ideal temperature is +20 °C.
- Yield:** The content of the can yields up to 5 meters joint (30 x 150 mm)
- Curing:** Fireguard NBS PU Foam 586 is tack free after approx. 15 minutes, and cuttable after 30 - 40 minutes, at 23 °C and 50 % relative humidity.
- After treatment:** Fireguard NBS PU Foam 586 must be protected against sunlight. The foam can be filled, papered or painted after curing.
- Cleaning:** The NBS-gun is flushed several times with PU cleaning liquid 599, the liquid must work for 1-2 minutes where after the gun is flushed till the liquid is clear.  
Uncured foam is removed with PU cleaning liquid 599.  
Cured foam can be removed mechanically.

## Health and safety:

For further information safety, refer to the product safety datasheet.

Following joint constructions are tested according to EN 1366-4: 2006, linear joint seals. It is the responsibility of the user to clarify with relevant authorities that the product used are suitable for- and meets actual proposed task.

**Fire doors:**

Regarding installation of fire doors and windows, the manufacturers installation instructions must be followed at all times.

**Conditions for plasterboard walls:**

Gypsum plasterboard wall is a double-plasterboard construction according to EI60 requirements, double gypsum plasterboard on steel bars in total 120 mm thickness, insulated with mineral wool (50 kg/m<sup>3</sup>).

**Conditions for concrete walls:**

Concrete wall is 150 mm thick; concrete, lightweight aggregate concrete or brick.

**Conditions for applied wood:**

Wood with a density of minimum 450 kg/m<sup>3</sup>.

Table 01

Construction material	Thickness of wall (= joint depth)	Joint width	Fire class
Concrete/Concrete	150 mm	30 mm	EI30
Concrete/Plasterboard	120 mm	30 mm	EI30
Concrete/wood	150 mm	30 mm	EI30
Concrete/Steel	150 mm	30 mm	EI30
Concrete/Concrete	150 mm	15 mm	EI60
Concrete/Plasterboard	120 mm	15 mm	EI90
Concrete/wood	150 mm	15 mm	EI60
Concrete/Steel	150 mm	15 mm	EI45

Concrete/concrete, wall thickness variations

Table 02

Joint depth, mm	100	100	100	100	200	200	200	200
Joint width, mm	40	30	20	10	40	30	20	10
Fire Class	EI20	EI30	EI30	EI60	EI120	EI180	EI180	EI240

The information and data contained in this Product Information sheet are based on extensive laboratory testing and our practical experiences and are meant for helping the user to find optimum working methods. As the conditions at the user are beyond our control, we make no warranties concerning the results, achieved by the products. The information's in this Product Information sheet are typical values, intended as a guideline. They should not be regarded as product specifications. Please also refer to our standard sales conditions and terms of delivery.

**DANA LIM A/S - KØBENHAVNSVEJ 220 - DK-4600 KØGE – DENMARK – INFO@DANALIM.DK**  
**PH. (+45) 56 64 00 70 - TECHNICAL SERVICE PH. (+45) 56 64 00 75**