

Fernoseal® Fire resistant silicone sealant

Factsheet: Fernoseal 1909e

Fernoseal is a fire resistant sealant product for linear joints and gap seals providing 5 hour fire resistance in horizontal and vertical joints up to 50 mm.



Applications

- For fire resistant joint sealing and gap seals
- In fire doors and partition walls of corridors, tunnels, stairwells and escape routes.

Specifications

- EN15651-1, F-Ext-Int CC: CE Marking
- EN13501-2, ETA 13/1059: Fire resistance
- EN1314-1, ETA 13/1059: Air permeability
- EN1366-4: Fire resistance tests for service installations; Linear joint seals
- NEN6069: Fire resistance of windows and doors
- BS476 Part 20: Methods for determination of fire resistance of non-loadbearing elements of construction

Characteristics

- High grade neutral silicone sealant
- Provides up to 5 hours fire resistance at 1150°C.
- Stops fire and smoke
- In case of fire, no falling burning drops will occur
- No shrinkage during fire
- Permanently elastic
- Free from acid, neutral reaction system
- Non-corrosive on metals

Dimensions of fire resistant joint seals

For fire resistance in accordance with test results, processing criteria are to be maintained and the indicated maximum joint width should not be exceeded. Joint ratios should be: joint width x 0,5 = joint depth. In case of joint widths smaller than 12mm, maintain a joint depth of 6mm.

Substrate preparation

Check whether all substrates are finished in accordance with regulations and are free from moisture, dirt and loose dust. If necessary, degrease the surfaces to adhere on with Bloem Multicleaner and a clean cloth. If in doubt, conduct adhesion tests and/or ask for advice.

Technical specifications at 23°C and 50% RH

Processing temperature:	5°C to +40°C
Temperature resistance:	-40°C to +140°C
Skin formation:	20 min.
Curing / 24 hours :	1-2 mm.
Flow (ISO 7390):	zero
Shrinkage (ISO 52451):	< 6%
Hardness Shore-A (DIN53505):	25-30°
Elongation at break:	180%
Movement capability:	25%

Joint dimensions according to NEN6069 / EN1366-4

Width/mm	Depth/mm	Back filling	Fire resistance / E	Insulation* / EI
50	25	PE Foam	300 min.	300 min.

* Time during which three criteria were met at the same time i.e.: Thermal insulation, flame density and stability.

Application

Cut the nozzle to the width of the joint. Extrude sealant with standard caulking gun. Prior to skin formation finish the surface using a spatula or joint nail and Bloem Joint Smoothing Fluid. Tools and stains can be cleaned with Bloem Multicleaner. Cured sealant can only be removed mechanically.

Packaging

400 ml sausages.
Other packaging upon request.

Colours

White, grey and black. Other colours upon request.

Storage and shelf life

Store in a cool and dry room (between 5°C and 25°C), unopened packages can be stored at least 12 months.

Safety Measures

Keep out of reach of children. Prevent contact with eyes and skin. After contact with eyes, thoroughly flush with water and consult a doctor if necessary. Aerate the workplace properly. When used according to its intended purpose, the vulcanised product does not pose a risk. See Safety Data Sheet (MSDS) concerned for more information.

Transportation classification

No special measures are required.

