

HPE Sealant - Installation Guide



Design Considerations

1. Consider the movement of the joint to be sealed. This should include thermal, wind pressures, settlement and differential movement of components.
2. Consider the possibility of discolouration due to oil migration or staining.
3. Consider exposure to temperature extremes, ultra violet light, radiation, chemical attack, standing water and vibration.
4. A suitable backing material to control the sealant depth should be used. Bond breaker materials should also be used to prevent three sided adhesion which causes sealant failure.

Installation

1. Clean the opening of loose particles and dust. Cables and pipes should be installed in accordance with building regulations.

2. Pack mineral wool (min 80kg/m³) around penetrations centrally. Allow for a minimum 25mm depth of HPE on each side of the wall opening.



3. Apply HPE to the remaining space around the penetrations. The sealant should be installed at a ratio of 1/8 of the diameter of the penetration, with the maximum diameter being 125mm. (See table below).

4. Worked example of sealant width / annular gap for a penetration diameter = 125mm

Fill width = 1/8 of penetration diameter
125mm divided by 8 = fill width of 16mm



5. Once HPE has been installed to the specified depth smooth over the seal with a spatula dipped in water. Leave the seal for a minimum of 48hrs.



6. Finished seal. For further application details contact Astroflame.



To achieve the correct fire rating the following guide on pipe / gap sizes and fill depths should be followed.

Pipe Size (mm)	Annular Gap (mm)	1Hr Depth (mm)	2Hr Depth (mm)
20	6	25	25
40	10	25	25
55	10	25	25
63	10	25	25
75	10	25	25
82	11	25	25
90	12	25	25
110	14	25	25
125	16	25	25
300 x 100mm void	Fill Exposed Face	25	25

Properties

Description	Aqueous thixotropic paste
Density Ca.	1.3g/cm ³
Colour	Grey / Red / Black

Application temperature	+ 5 °C to 35°C
Expansion onset temperature	Ca. 180 °C
Expansion	Up to 20 times
Skin time	15 minutes @ 25 °C/ 50%RH
Shelf life	18 months if unopened
pH	8 - 9
Testing	EN1366-3 and EN1366-4-EI120, ISO 11600. Air Permeability to EN1026 - 600Pa
Manufacture	ISO 9001:2008
Certifire 3rd Party Accreditation	CF

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