

Trade Name: Astro HPE Sealant
High Pressure Expansion Sealant



For sealing combustible and non combustible penetrations

Sealing combustible pipes PVC, HDPE and ABS up to 125mm. (2hrs)

Sealing of cables & Telecommunication bunches

Fire Resistance EN1366-3 EI120, EN1366-4-EI120

Fire Classification to EN13501-2

Air Permeability to EN1026 - 600Pa
ISO 11600.

Smoke, gas, water tight and air tight.

Can be used in openings up to 300mm x 100mm.

High Expansion Ratio - up to 20:1



Description

Astro HPE Sealant is a high pressure exerting, graphite based, intumescent sealant that expands when exposed to fire to protect penetrations, including pipes and cables. It also maintains the integrity and insulation performance of the seal.

The sealant is smoke, gas and air tight.

Under fire conditions the product swells and exerts pressure to the surrounding substrates leading to closure of the penetration. The integrity and insulation is then maintained by the stability of the remaining product char.

The sealant is intended for use in all types of service penetration through walls and floors where fire integrity and insulation needs to be preserved. It has excellent non slump properties coupled with ease of application due to its water based nature.

Suitable for sealing Armaflex insulation. Suitable for use in irregular applications.

Tested in Lightweight Partitions (plasterboard).

Insulation properties. Easy clean up with water and is odourless. Long life and can be over-painted.



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ETA-14/0096
ETAG 026 – Part 1
ETAG 026 – Part 2
ASTRO HPE SEALANT

Causes no known deleterious effects to plastic pipes, plastic cables, sheathing or metallic components.

Resists fungi and vermin.

“see ETA-14/0096 for relevant characteristics”

Applications Data

For sealing combustible and non combustible penetrations - including metallic pipes, PVC, HDPE and ABS.

Suitable for use in Block Wall, Concrete, Masonry and Plasterboards Partition.

Sealing combustible pipes up to 125mm. (2 hrs integrity and insulation).

Sealing of cables, Telecommunication bunches, Small, Medium and Large.

Can be used for sealing pipes with Armaflex insulation.

Can be used in linear joints - tested up to 20mm wide.

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 |

See also installation data and video for this product.

Properties

| | |
|-----------------------------|---|
| Description | Aqueous thixotropic paste |
| Density Ca. | 1.3g/cm ³ |
| Colour | Grey |
| 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. Store between +5° C and +25° C above ground level in dry well ventilated conditions. |
| pH | 8 - 9 |

| | |
|-----------------------------------|---|
| Fire Resistance | EN1366-3 and EN1366-4 -EI120 |
| Insulation | EN1366-3 120 |
| Air Permeability | 600Pa EN1026 - 100Pa 11.1/16.7 m ³ /h/m ² |
| Classification | EN 13501-2, ISO 11600. |
| Manufacture | ISO 9001:2008 |
| Certifire 3rd Party Accreditation | CF 5239 |

Availability

Astro HPE Sealant is supplied in rigid 310ml cartridge format for use with an applicator gun.

| Name | Dimensions | Colour | Product Code |
|-------------------|-----------------|-----------|--------------|
| Astro HPE Sealant | 310ml cartridge | Grey only | AFHPESG |

To Order & Specify

Please quote - Quantity / Trade Name / Product Ref.

Typical example:-

10 / Astro HPE Sealant / AFHPESG

Fire Test or Assessment Reports

EN1366-3 EI120, EN1366-4-EI120
 Fire Classification to EN13501-2
 Air Permeability to EN1026 - 600Pa
 ISO 11600.

For specific fire insulation ratings contact Astroflame

Health and Safety

See COSHH datasheet for full details.

Environmental Impact

HPE Sealant contributes to a Green Building :-
 Low VOC (air quality).
 No Power Tools required for installation (no energy source required).
 Dust free.
 Low Ozone Depletion Potential (ODP).
 Low Global Warming Potential (GWP).
 No water pollution.
 Smoke and Air Tightness.
 Noise Reduction.
 Thermal Insulation.
 Recycling of Packaging.
 Avoidance of Air Filtration.
 Does not emit halogenated by-products.

Contains no raw materials known to have an estrogenic effect.
The life cycle of HPE Sealant is over 20 years.

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