Technical Product Data Sheet

ACRYLODICE F

kuhnodice

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Ling. Rev.: 1.0

Product description

ACRYLODICE F is a fire-resistant, one-component sealant with foaming properties that expands at temperatures above 250 °C. It reliably prevents the passage of fire and smoke. Depending on the joint, it can achieve a fire resistance duration of up to 240 minutes according to EN 1366-4 (ETA 13/0468). The sealant comes ready for use. It cures when exposed to air to form an elastic, tack-free seal. Its soft consistency makes it easy to inject into narrow and wide joints without slumping. ACRYLODICE F has excellent adhesion to a variety of building materials, ensuring a secure seal in structural distortions in the event of fire. It is halogen-free, suitable for painting and has excellent resistance to UV radiation and moisture.

Properties

- Colour-fast, waterproof, and resistant to UV radiation once fully cured
- Excellent adhesion to porous surfaces and metal
- Suitable for painting
- Expands to form a protective layer at temperatures over 250 °C
- Joint movement of up to ±10%, remains elastic once cured
- Does not contain halogens

Fields of application

- Fire damper installation
- Cable and pipe penetrations
- Working and expansion joins
- Door frame joints
- Ventilation and smoke extraction ducts
- Crack repairs

Technical data

Verification	ETA-13/0468
Composition	Acrylic dispersion, halogen-free
Absorption of movement [%]	±10
Bulk density [kg/m³]	1400
Tack-free	After 20 minutes
Surface finish	Smooth, flexible
Shrinkage	None
Storage	Store in a dry location at room temperature between +5 °C and 30 °C.
Shelf life	Twelve months when the package remains unopened

Fire resistance duration, depending on wall thickness and joint dimensions

As per ETA-13/0468

<table>
<tr><th>Wall thickness [mm]</th><th>Joint width [mm]</th><th>Joint depth [mm]</th><th>Application</th><th>Class</th><th>Fire resistance duration</th></tr>
<tr><td rowspan="2">100</td><td rowspan="2">21</td><td rowspan="2">20</td><td rowspan="6">Double-sided</td><td>TI</td><td>210 min (EI 180)</td></tr>
<tr><td>FR</td><td>240 min (E 240)</td></tr>
<tr><td rowspan="2">100</td><td rowspan="2">11</td><td rowspan="2">10</td><td>TI</td><td>187 min (EI 180)</td></tr>
<tr><td>FR</td><td>240 min (E 240)</td></tr>
<tr><td rowspan="2">200</td><td rowspan="2">20</td><td rowspan="2">20</td><td>TI</td><td>240 min (EI 180)</td></tr>
<tr><td>FR</td><td>240 min (E 240)</td></tr>
</table>

Extended test results – test report N°RS03-007/B (CSTB)

<table>
<tr><th>Wall thickness [mm]</th><th>Joint width [mm]</th><th>Joint depth [mm]</th><th>Application</th><th>Class</th><th>Fire resistance duration</th></tr>
<tr><td rowspan="2">150</td><td rowspan="2">20</td><td rowspan="2">20</td><td rowspan="8">Double-sided</td><td>TI</td><td>180 min (CF 180)</td></tr>
<tr><td>FR</td><td>298 min (PF 240)</td></tr>
<tr><td rowspan="2">150</td><td rowspan="2">10</td><td rowspan="2">10</td><td>TI</td><td>240 min (CF 240)</td></tr>
<tr><td>FR</td><td>360 min (PF 360)</td></tr>
<tr><td rowspan="2">200</td><td rowspan="2">20</td><td rowspan="2">20</td><td>TI</td><td>360 min (CF 360)</td></tr>
<tr><td>FR</td><td>360 min (PF 360)</td></tr>
<tr><td rowspan="2">200</td><td rowspan="2">10</td><td rowspan="2">10</td><td>TI</td><td>360 min (CF 360)</td></tr>
<tr><td>FR</td><td>360 min (PF 360)</td></tr>
</table>

- TI = thermal insulation: the time during which the temperature on the side of the wall that is not exposed rises to not more than 180 °C.
- FR = flame resistance: the time during which the joint prevents flames from penetrating through the wall.

Colour

White (grey upon special request)

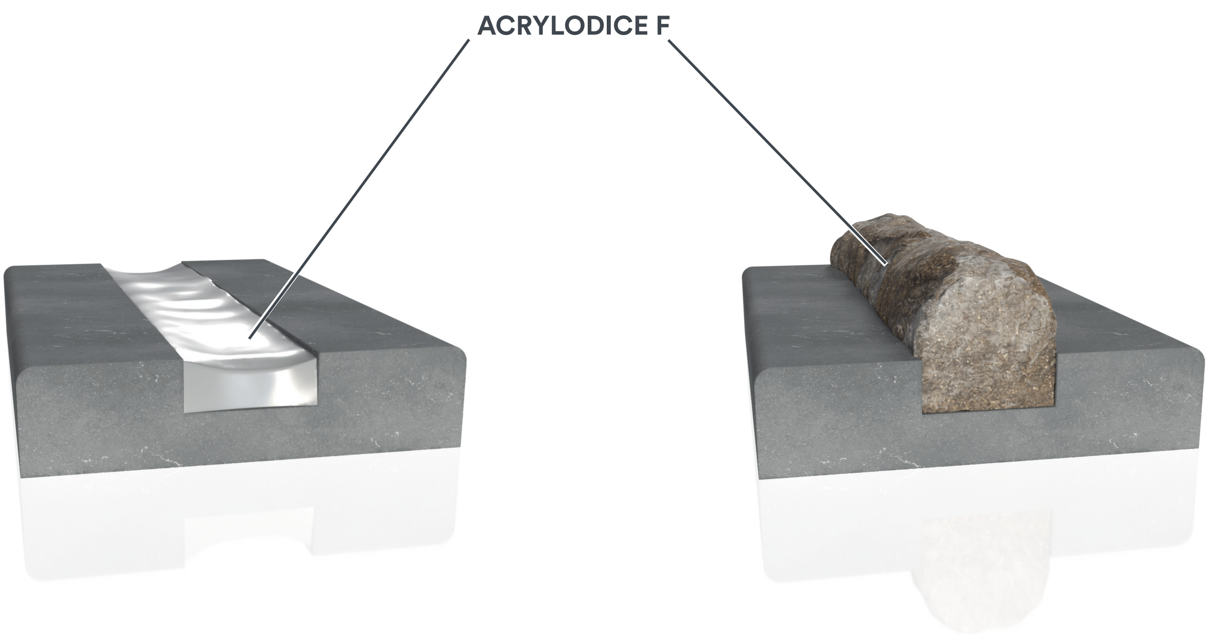
Processing information

Application temperature [°C]	+5 °C to +30 °C

1. Surface preparation:
   - The surfaces must be clean, dry and free from dust, oil and other dirt. Very porous substrates should be dampened slightly to improve adhesion.
2. Application:
   - Inject the sealant into the joint or opening using a standard cartridge gun. When doing so, ensure that the material fills out the whole area evenly without forming cavities.
3. Joint depth:
   - The sealant depth required depends on the desired fire resistance duration. If necessary, seal the joint on both sides to ensure maximum fire protection.
4. Smoothing the surface:
   - Use a spatula or trowel to form the applied compound into the desired shape within the working time (approx. 20 minutes).
5. Curing:
   - The material cures when exposed to air and forms an elastic, tack-free surface. Depending on the joint depth, it may take several days to dry through fully.
6. Subsequent treatment:
   - Following a curing time of at least 48 hours, the surface can be painted over. We recommend checking compatibility beforehand.
   - Clean tools with water immediately after use.

Contents of a package/set

310 ml cartridge (15 pieces per packing unit)



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