AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

FIREFOAM 1C - Technical Data Sheet-en

澳迪斯防火科技（廊坊）有限公司

Aodisi Fire Technology (Langfang) Co., Ltd.

销售及选型联系 / Sales & product enquiries

19931333348

492048031@qq.com

www.gmfireproof.com

以上为销售联系信息，不替代安全数据表中的应急联系电话。
原始技术内容及制造商、检测机构和证书签发信息见后续资料页。

Sales contact only; emergency contacts in safety data sheets remain applicable.
Original technical, manufacturer and certification details follow.

Technical Product Data Sheet

FIREFOAM 1C



kuhn odice

Tech. Rev.: 1.0
Ling. Rev.: 1.0

Product description

FIREFOAM 1C is an CFC-free one-component polyurethane foam that expands when exposed to heat. The foam has a fire resistance of up to 360 minutes. It has excellent adhesion to most building materials (excluding PE/PP) and provides excellent thermal and acoustic insulation. FIREFOAM 1C is particularly suitable for mounting and sealing window and door frames and filling cavities. It offers stable performance with no shrinkage or subsequent expansion and is classified as flame retardant (B1) according to DIN 4102-1 and as normally flammable (E) according to EN 13501-1.

Reaction to fire

- Class E (EN 13501-1)

Properties

- Fire-resistant up to 360 minutes
- Excellent adhesion to most building materials
- High thermal and acoustic insulation
- Excellent filling performance and stability (no shrinkage)
- CFC-free with ozone-friendly propellants

Fields of application

- Mounting and sealing window and door frames
- Filling cavities in roof and wall constructions
- Sealing openings against smoke, gas and flames
- Insulation around pipes and cable ducts
- Connecting insulating materials to building structures
- Thermal insulation of cooling systems and motors

Features

- Excellent adhesion
- High level of thermal and noise insulation
- Suitable for painting once fully cured

Technical data

Verification	ETA-13/0465: 07 August 2017
Composition	Polyurethane (PU foam), CFC-free
Material structure	Closed-cell foam, more than 70% closed cells
Temperature stability [°C]	-40 °C to +90 °C (once cured)
Thermal conductivity [W/(m·K)]	0.035
Pressure resistance [N/mm²]	0.076
Bulk density [kg/m³]	32 (fully cured)
Vapour permeability [g/m² / 24 h]	70
Skin formation time (dry)	10 minutes at 20 °C / 65% rel. humidity
Shrinkage	None
Storage	Store in a dry location at room temperature between +5 °C and 25 °C.
Shelf life	Max. 12 months from delivery date in original packaging and under the stated storage conditions

Test institute	Test report	Test standard
Warrington Fire Research Centre (GB)	Test report 9810C	EN 1366-4 and NBN 713.020
CSTB (France)	Test report RS00-153	N/A
TNO (Netherlands)	Test report 2000-CVB-R00703	NEN 6069:1997
University of Ghent (Belgium)	Test reports 9297B and 9297C	EN 1366-4 and NBN 713.020

Colour

Bright red

Processing information

Application temperature [°C]	-5 °C to +30 °C
Yield	1 litre of cartridge foam provides 25–30 litres volume of foam.

Wall material	Joint width	Joint depth	Fire resistance duration
Aerated concrete	11 mm	200 mm	229 minutes (EI 180)
	41 mm	200 mm	110 minutes (EI 90)
	10 mm	100 mm	103 minutes (EI 90)
	30 mm	100 mm	50 minutes (EI 45)
Solid construction wall	11 mm	200 mm	360 minutes
	20 mm	200 mm	360 minutes
	30 mm	100 mm	> 240 minutes
	40 mm	100 mm	> 180 minutes

1. Surface preparation:
   - Before application, shake the spray can rigorously for at least 30 seconds to ensure a consistent foam mix.
   - The surfaces to be treated must be clean and free from dust, oil and grease. Dampening the surface slightly improves adhesion and curing and makes the cell structure of the foam finer.
2. Application:
   - Hold the spray nozzle upright during application.
   - Only fill cavities up to roughly a third because the material continues to expand during curing.
   - If the spray can is not fully emptied, clean the spray head and pipe for reuse. FIREFOAM 1C is also available with a foam applicator gun.
3. Drying time and curing:
   - At 20 °C and a relative humidity of 65%, FIREFOAM 1C begins to form a skin within 10 minutes and is tack-free after around 25 minutes. A 30 mm foam layer takes roughly two hours to fully cure.
4. Safety notes:
   - Follow the usual occupational safety measures such as wearing gloves and safety glasses to avoid irritating skin and eyes.

Contents of a package/set

750 ml spray can (12 pieces per packing unit)

