

# USG ME FLEXIBLE FIRE AND ACOUSTICAL SEAL



## FEATURES & BENEFITS

USG ME Flexible Fire and Acoustical Seal is a 1-component fire resistant sealant based on acrylic dispersion. USG ME Flexible Fire and Acoustical Seal is a plasto-elastic sealant which is slightly intumescent above +120°C and is suitable for up to 4 hours of fire resistant sealing of linear joints.

- Tested according to EN 1366-4
- Up to 4 hours fire resistance
- Can be applied separately in joints up to 20 mm wide
- Can be combined with FP PU Foam up to 30 mm wide
- Paintable with most water based and synthetic paints
- Easy to apply and clean
- Joint movement up to 7.5%
- Almost odourless
- Non corrosive towards metals

## APPLICATION

USG ME Flexible Fire and Acoustical Seal was specifically developed for fire resistant sealing of linear connection joints in gypsum and stony substrates. Fire resistance tested according to EN 1366-4 up to + 120 minutes in a 20 mm wide gap. Combined with FP PU Foam up to 180 minutes in a gap of 30 mm wide. Ensure that you choose the correct fire resistance for your application by consulting the classification and test reports.

## USAGE

A joint with the correct dimensions is able to absorb movements between building materials. The joint depth should always be in the correct relationship of the joint width. A general rule is the ratio of joint depth to the width of the joint with a joint width up to 10 mm is 1:1, with a minimum of 5 mm in width and depth. For joints wider than 10 mm, the depth is the width divided by 3 plus 6 mm.

## SHELF LIFE

In unopened original packaging between +5°C and +25°C, shelf life is up to 18 months from production date, stored in a dry place.

## LIMITATIONS

- Not suitable for continuous exposure to water
- Not suitable for PE, PP, PC, PMMA, PTFE, soft plastics, neoprene and bituminous substrates

## STORAGE

- Store material in a cool, dry place. Avoid direct sunlight.
- Maintain temperature above 5°C.
- Shelf Life: Up to 18 months under protected storage conditions.
- Keep out moisture.
- Avoid dew point conditions or excessive moisture.

## DIRECTION OF USE

A joint with the correct dimensions is able to absorb movements between building materials. The joint depth should always be in the correct relationship of the joint width. A general rule is the ratio of joint depth to the width of the joint with a joint width up to 10 mm is 1:1, with a minimum of 5 mm in width and depth. For joints wider than 10 mm, the depth is the width divided by 3 plus 6 mm. For more information see the our website [www.usgme.com](http://www.usgme.com).

**PAINTABILITY**

USG ME Flexible Fire and Acoustical Seal is paintable when fully dry. During curing product will show shrinkage, which can cause cracking of the paint. We recommend testing compatability with paint prior to application.

**CLEANING**

Tools to be cleaned after use with water. Hands can be cleaned with Wipes and/or water and soap.

**PRODUCT DATA**

Property	Reference	Product Data
100 % modulus	DIN 53504 S2	0,25 N/mm <sup>2</sup>
Application rate	@ Ø4 mm/4 bar	580 g/min
Application temperature Base		+5°C to +40°C
Base		Acrylic dispersion
Curing time	@ +23°C/50% RH	1mm/24 hours
Density	ISO 1183-1	1,60 g/ml
Elongation at break	DIN 53505/ISO 868	300%
Fire rating	EN 1366-4	up to + 120 minutes in a 20 mm wide gap
Flow	ISO 7390	<2 mm
Frost resistance during transportation		up tp -15 °C
Joint movement		7,5 %
Open time	@ +23°C/50% RH	5-10 minutes
Shorea hardness	DIN 53505	20
Skin formation	DBTM 16	6 minutes @ +23°C/50% RH
Temperature resistance		-20°C to +75°C
Tensile strength	DIN 53504	0,11 N/mm <sup>2</sup>

**HEALTH & SAFETY**

- Product Safety Data Sheet must be read and understood before use. These are available on request and via our websites.
- Dust may cause irritation to eyes, skin, nose, throat and upper respiratory tract. Avoid irritation by reducing exposure to dust. Use in a well-ventilated area or provide sufficient local ventilation.
- Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment.

**REFERENCES**

For further health and safety instructions, refer to the Safety Data Sheet (SDS) for this product, available from your USG Middle East sales office or **USGme.com**

**Notice:**

As we are involved in constant products development; this document information is subject to change without prior notice. Please always refer to **usgme.com** for the updated products information document.

©2023 Factory of USG Middle East LTD. Co. All rights reserved.