marmox MSP360 FIRE Technical Datasheet

Premium Adhesive & Sealant

Adhesive/Sealant with up to 3 hours fire-resistance, in accordance with EN1366-4:2001

Description

Marmox MSP360 Fire (grey) is part of our MSP360 Premium Adhesive and Sealant range.

This is an ultra-high-performance, professional, heavy-duty, exterior/interior, ready-to-use adhesive and sealant. It is made in the UK using the latest Advanced Modified Silane-Polymer (MSP) Technology, acquiring the best properties of conventional acrylic, silicone, butyl, polyurethane, and other hybrid-based adhesives/sealants. Therefore, Marmox MSP360 is the all-in-one super solution that replaces all your tubes of adhesives & sealants with just one tube.

MSP360 Fire (grey) is a certified fire-resistant and highly elastic sealant for sealing fire-retardant movement joints in façades and floors. Up to 3 hours fire-resistant, in accordance with EN 1366-4:2021.

Features

- Fire-resistant for up to 3 hours (depending on the structure) in accordance with EN 1366-4
- Concrete grey colour
- Permanently elastic
- Solvent-free
- Exterior/Interior use
- Strong bond
- UV/Weather resistant
- Non-shrink, fast-cure MS Polymer® System
- Noise-attenuation adhesive
- Can be applied to damp surfaces – even cures underwater
- Non-corrosive to metals
- Complies with the requirements of GEV, with EMICODE emission class EC1PLUS (the highest level of environmental and indoor hygiene protection)
- Free of isocyanates (found in PU adhesives) and silicone
- Excellent anti-pick qualities
- Easy to apply and tool
- Low odour
- Does not shrink
- Non-staining

Usage

Joint Size (mm)	6 x 6	9 x 6	12 x 6	25 x 10	7 x 7 (Fillet)	10 x 10 (Fillet)
Linear Meter (per cartridge)	8.3	5.3	3.9	1.1	11.9	5.8

Substrates

Marmox MSP360 Fire (grey) is ideal for use with all Marmox products, e.g., Fireboard and Multiboard, as well as:

- Polystyrene
- Brick/Masonry
- Concrete/Plaster
- Metals (incl. lead)
- Plastics
- Woods
- Tiles
- Glass/Mirrors
- PVC/PVCu
- Ceramics/Stone

Application / Instructions

Marmox MSP360 Fire (grey)

- For sealing expansion and connection joints between building and façade elements, which must be fire-resistant and prevent the spread of fire and toxic fumes
- Sealing of movement joints, such as longitudinal joints/between concrete parts and masonry
- Joint sealing in façades, floors, galleries, stairwells, and balconies
- Sealing of connection joints around/along façades, windows, and door frames
- Sealing of prefabricated elements, sheet materials, and panels

All surfaces must be clean and sound, free from dirt, grease, and other contamination.

Cut the cartridge seal and screw on the nozzle, which should be cut to your required size. Using a skeleton gun, apply the sealant into the gap or joint to provide a good, solid fill. If required, place masking tape along edges, removing it within 10 minutes of application.

For gluing applications, apply adhesive in vertical lines at a distance of 20 cm. Do not apply in dabs. Support the item being fixed for 24 hours until full curing occurs.

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Emission Data Indoor Air Quality

Marmox MSP360 Fire (grey) complies with the requirements of GEV, and the results correspond to the EMICODE emission class EC1PLUS, which is the highest level of environmental and indoor hygiene protection.

Limitations

Marmox MSP360 Fire (grey) is not recommended for application on PE, PP, PC, PTFE, wax, soft plastics, neoprene, or bituminous surfaces. Not paintable with alkyd resin-based paint. Not suitable for applications in direct contact with natural stone, foodstuffs, PVB foil, or silver-coated mirrors/glass. Not suitable for continuous water loads or dilation joints. Discolouration may occur under certain conditions, such as direct contact with chemicals, release of plasticisers from the surface, and/or application in dark rooms/spaces. Not fungicidal.

On porous surfaces, such as concrete, a primer is recommended. It is the user's responsibility to determine suitability. Adhesion tests prior to application are recommended. Store between +5°C and +25°C in dry conditions.

15-month shelf life from the date of manufacture (reference the batch code on label).

Health & Safety

Wash the material from the skin while still wet. Material in contact with eyes should be washed out immediately with water. Seek medical advice if discomfort persists.

More detailed information can be found in the relevant Marmox MSP360 Fire (grey) Safety Data Sheet.

Certification

EN 15651-1: F-EXT-INT-CC-25
EN 1366-4 :2021
VOC emission class A+
EMICODE EC1 PLU

Packaging

Marmox MSP360 Fire (grey) is available in 290ml cartridges, 12 cartridges per carton. Concrete grey colour.

Technical Data

Viscosity ISO 7390	mm	<2
Desity	g/ml	1.43
Skin Forming Time 23°C / 55%RH	min	10.15
Curing (24hrs) 23°C / 55%RH	mm	2
Temperature Resistance After Curing	°C	-40 to 90
Shrinkage	-	Nil
Permission Deformation	%	25
Mechanical Properties, 2mm Filming		
Hardness ISO 37	-	31
Modulus, 100% ISO 37	MPa	0.89
Tensile Strength ISO 37	MPa	1.59
Elongation at Break ISO 37	%	350

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External Application Chart

Facades - External

Type of Material	Rate
Masonry	
Concrete / Cellular Concrete / Brickwork	B
Granite / Marble / Natural Stone	B
Wood	
Fibreboard / Veneer	B
Solid and Untreated Wood	B
Glass / Ceramics	
Glass	A
Layered Glass	A
Reflective Glass	A
Metals	
Copper and Copper Alloys	B
Iron	B
Lead	A
Stainless Steel	B
Untreated and Anodised Aluminium	B
Zinc	B
Synthetic Materials	
Acrylic / Fibreglass	A
PMMA (Plexiglass / Perspex)	A
Polycarbonate	A
PVC and PVCu	A
Others	
Expansion Joints	A
Leadwork	A
Plumbing	B
Polystyrene	A
Stonework	A

Roofs

Type of Material	Rate
Bitumen	C
Copper and Copper Alloys	B
Expansion Joints	A
Glass	A
Guttering	A
Layered Glass	A
Lead	A
Leadwork	A
Plumbing	B
PMMA (Plexiglass / Perspex)	A
Polycarbonate	A
Polystyrene	A
Reflective Glass	A
Stainless Steel	B
Stonework	A
Untreated and Anodised Aluminum	B
Woodwork	B
Zinc	B

Due to the diversity of applications and substrates, Marmox (UK) Ltd cannot accept responsibility for results obtained using this chart.

It is suggested that a preliminary test be carried out first to check bond and seal.

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Internal Applications

General Areas - Internal

Type of Material	Rate
Masonry	
Cementitious Fibre	B
Concrete / Cellular Concrete / Brickwork	B
Granite / Marble / Natural Stone	B
Plaster	B
Wood	
Fibreboard / Veneer	B
Solid and Untreated Wood	A
Glass / Ceramics	
Ceramics / Porcelain	A
Glass	A
Layered Glass	A
Reflective Glass	A
Metals	
Copper and Copper Alloys	B
Iron	B
Lead	A
Stainless Steel	B
Untreated and Anodised Aluminium	B
Zinc	B
Synthetic Materials	
Acrylic / Fibreglass	A
PMMA (Plexiglass / Perspex)	B
Polycarbonate	B
Polyester	B
PVC and PVCu	A
Others	
Acoustics Sealing	A
Dry Lining	B
Ductwork	B
Expansion Joints	A
Frame Fixing	B
Internal Frame Sealing	B
Low Emission Zones	B
Mirror Fixing	B
Plumbing	B
Polystyrene	B
Skirting & Architraves	B
Stonework	B
Woodwork	B

Internal Applications Continued...

Bathrooms / Sanitary / Public Bath Houses

Type of Material	Rate
Masonry	
Cementitious Fibre	B
Concrete / Cellular Concrete / Brickwork	B
Granite / Marble / Natural Stone	B
Glass / Ceramics	
Ceramics / Porcelain	A
Glass	A
Layered Glass	A
Metals	
Copper and Copper Alloys	B
Stainless Steel	B
Untreated and Anodised Aluminium	B
Zinc	B
Synthetic Materials	
Acrylic / Fibreglass	A
PMMA (Plexiglass / Perspex)	B
Polycarbonate	B
Polyester	B
Others	
Acoustics Sealing	A
Dry Lining	B
Ductwork	B
Expansion Joints	A
Frame Fixing	B
Internal Frame Sealing	B
Low Emission Zones	B
Mirror Fixing	B
Plumbing	B
Polystyrene	B
Skirting & Architraves	B
Stonework	B
Woodwork	B

Kitchens

Type of Material	Rate
Acoustic Sealing	A
Concrete / Cellular Concrete / Brickwork	B
Dry Lining	B
Ductwork	B
Fibreboard / Veneer	B
Glass	B
Granite / Marble / Natural Stone	B
Internal Frame Sealing	B
Plumbing	B
Professional Food Preparation Areas	B
Skirting & Architraves	B
Solid and Untreated Wood	B
Stainless Steel	B
Untreated and Anodised Aluminum	B
Woodwork	B

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Please note...

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