Technical data sheet

PARABOND FR

CHARACTERISTICS

- Joint sealant
- Permanent elasticity
- Fire retardant
- Suitable for dry and humid weather conditions
- Paintable with most water and solvent based paints
- Good chemical resistance: to water, aliphatic solvents, oils, greases, diluted inorganic acids and alkalis
- Good chemical resistance

APPLICATIONS

- Sealing of connection joints in building and construction.
- Suitable where the joints have to be painted or where silicone sealant is not required.
- Indoor and outdoor use.

TECHNICAL CHARACTERISTICS	
Type of product	MS polymer
Density (g/ml)	1.47
Number of components	1
Application temperature	+5°C - +40°C
Temperature resistance	-40°C - +90°C
Curing system	Curing by air humidity
Curing speed at 23 degrees C and 50% R.H. (mm, after 24h)	2.5 - 3
Skin forming time at 23°C and 50% R.H. (min.)	90
Shore A hardness: ISO 868	26
Elastic recovery capacity: ISO 7389	> 60%
Maximum permissible deformation: ISO 11600	20%
Modulus at 100% elongation: ISO 37 (N/mm²)	0.7
Tensile strength: ISO 37 (N/mm²)	1.5
% Elongation at break: ISO 37	300
Shelf life of unopened product	12 months
Storage conditions	Store in a dry, cool place at +5°C to +25°C. Keep out of direct sunlight.

PACKING AND COLOURS
12 x foil bag 600ML/box - 720 pieces/pallet RAL7004 Signal grey

METHOD OF USE

Preparation

- Use in well-ventilated rooms. Good ventilation is important during application and curing of the product.
- The surface must be solid, strong enough and clean, dust and fat-free.

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- If needed degrease the materials to be glued with Parasilico Cleaner, MEK, fire alcohol, ethanol.
- The user needs to make sure that the product is suitable for the application. Consult our technical service if necessary.
- Remove any water, water film or raindrops. The best adhesion is obtained on a dry surface.

Primers

- On highly absorbent surfaces we recommend to use the Hybrid & PU Primer (transparent or black, drying time about 15 min.).

Application

- Apply the product from the cartridge or foil packaging with a manual or pneumatic caulking gun.
- The size and shape of the joint is very important. Avoid thin joints.
- Do not subject the joint to thermal, mechanical or chemical stress before curing is complete.

Joint dimensions

- Suitable joint widths from 5 mm to 50 mm
- Joints with a width up to 10 mm: joint depth should equal joint width
- Joints wider than 10 mm: joint depth = (joint width/3) + 6 mm
- The required width of an expansion joint depends on the temperature development, material properties and the dimensions of the building elements.

Tooling

- Smooth surface before skin formation with Perfect Joint Tooling Agent and/or the Perfect Joint Tool.

Cleaning

- Any adhesive seeping along the edges can be removed with a spatula. Uncured adhesive residues can be removed using Parasilico Cleaner, Multi-Purpose Super Cleaner or Cleaning Wipes
- After curing remove mechanically.

Paintable

- Given the wide variety of paint types available, it is recommended to test the compatibility of the sealant/adhesive with the paint in advance.
- Alkyd paints might require an extended drying time.
- After cleaning with acetone, the joints can be varnished at any time.

Fire resistance

- Respecting the joint dimensions is essential for the fire rating properties of the sealant.
- Fire resistance class rated according to EN 13501-2 until EI120. Always consult the conditions stated in the fire resistance classification report (available on request).
- Fire resistance tested in linear joints according to European standard EN 1366-4.
- Fire resistance class according to EN 13501-2, where Parabond FR may be applied on one side or on both sides of the wall/floor.
- Fire resistance up to 120 minutes (EI 120) for linear joints in walls and up to 180 minutes (EI 180) for linear joints in floors.
- Always consult the conditions stated in the fire resistance classification report (available upon request).

SAFETY

Consult the safety information on the packaging and the safety data sheet for more information.

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POINTS OF ATTENTION

- Not suitable for permanent submersion.
- Not suitable for use on butiminous surfaces.
- Not suitable for use on PE, PP, PA, PTFE (Teflon).
- Not suitable for use on polyacrylate and polycarbonate
- Not suitable for use on natural stone (can cause stains).
- Colours can yellow slightly in the absence of UV light or through contact with smoke or detergents.
- Not suitable for sanitary applications (not mould resistant)
- Not suitable for glazing joints.
- Not resistant: to concentrated acids and chlorinated hydrocarbons.
- Not suitable for the use on cover strips of copper.

TECHNICAL APPROVALS AND QUALITY LABELS

- UKCA & CE according to EN 15651-1: F EXT-INT 20 LM
- GEV Emicode EC1plus label: very low VOC emissions
- French VOC emission class A+
- Fire resistance: FIRES classification reports according to EN 13501-2: 2023

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