SOUDAL

Technical Data Sheet

SOUDASEAL 240 FC

Technical Characteristics:

Base	MS Polymer®
Consistency	Paste
Curing System	Moisture Cure
Skin Formation (*) (20℃/65% R.V.)	Ca. 10 min.
Curing Rate (*) (20℃/65% R.V.)	2 - 3 mm/24h
Hardness (DIN 53505)	40 ± 5 Shore A
Elastic recovery (ISO 7389)	> 75 %
Specific Gravity (DIN 53479)	1,67 g/mL
Maximum Deformation	± 20 %
Temperature Resistance (fully cured)	-40℃ to +90℃
Elasticity Modulus 100 % (DIN 53504)	0,75 N/mm²
Tear Strength (DIN 53504)	1,80 N/mm²
Elongation at break (DIN 53504)	750 %
Shear Strength Substrate Tickness Shear velocity	0,9 N/mm² AlMgSi1 2 mm 10 mm/min

(*) these values may vary depending on environmental factors such as temperature, moisture, and type of substrates

Product:
Soudaseal 240 FC is a high quality single component joint sealant with high adhesive strength. It is based on MS-Polymer®, chemically neutral and fully elastic.

Characteristics:
- Outstanding bond strength on nearly all surfaces
- High performance mechanical properties
- Flexible elastic rubber – movement accomodation up to ±20%
- Straightforward application even in adverse conditions
- No bubble formation within sealant (in high temperature and humidity applications)
- Very easy to tool and finish
- Good extrudability even at low temperatures
- Colour stable and UV resistant
- Ecological advantages – free of isocyanates, solvents, halogens and acids
- Minimal health and safety considerations
- Can be painted with all water based paints and many other systems (to be tested)
- No staining of porous materials such as natural stone, granite, marble, etc

Applications:
Sealing and bonding in the building industry.
Sealing of floor joints and low movement wall joints.
Structural bonding in vibrating constructions.
Connection joints in sheet metal fabrication, sealing of air conditioning systems.
Sealing in sanitary applications.
Bonding of security and safety glass.
Supple bonding in carbodies, caravans, containers…

Adhesion:
Soudaseal 240 FC has an excellent adhesion on almost all substrates. Soudaseal 240 FC has been tested on the following metal surfaces: steel, AlMgSi1, brass, electrolytic galvanised steel, AlCuMg1, flame galvanised steel, AlMg3 and steel ST1403. Plastics that were tested include: polystyrene, polycarbonate (Makrolon®), PVC, ABS, polyamide, PMMA, glasfiber reinforced epoxy and polyester (GRP).
While producing plastics very often releasing agents, processing aids and other protective agents (like protection foil) are used. These should be removed prior to bonding. For optimum adhesion the use of Surface Activator is recommended.

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NOTICE: bonding plastics like PMMA (ie Plexi® glass), polycarbonate (ie Makrolon® or Lexan®) in stress loaded applications can give rise to stress cracking and crazing in these substrates. The use of Soudaseal 240 FC is not recommended in these applications.
There is no adhesion on PE, PP and PTFE (Teflon®).

Packaging:
Colour: black, white, grey, brown, concrete grey, beige
Packaging: cartridge 290 ml; foil bag 600 ml (other packaging on request)

Shelflife:
12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

Resistance to chemical agents:
Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis
Poor resistance to aromatic solvents, concentrated acids, chlorinated hydrocarbons

Substrates:
Nature: clean, dry, free of dust and grease
Priming: Porous surfaces in water loaded applications should be primed with Primer 150.

Surface Activator may be used to pretreat non-porous surfaces.
We recommend preliminary compatibility tests previous to application.

Joint dimensions:
Minimal width: 2mm (bonding)
5mm (joints)
Maximum Width:10mm (bonding)
30mm (joints)
Minimum Depth: 5mm (joints)
Recommendation: with of joint = 2x depth of joints

Application:
Method: Manual- or pneumatic caulking gun
Application temperature: +5°C until +35°C
Cleaning: White Spirit or Surface Cleaner immediately after application and before curing
Tooling: soapy solution before skin formation
Repair with: Soudaseal 240 FC

Health- and Safety Recommendation:
Apply the usual industrial hygiene.

Remarks:
- Soudaseal 240 FC may be overpainted with waterbased paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application. The drying time of alkyd resin based paints may increase.
- Soudaseal 240 FC can be applied to a wide variety of substrates. Due to the fact that specific substrates such as plastics, like polycarbonate, etc, may differ from manufacturer to manufacturer, we recommend preliminary compatibilty test.
- This product can not be used as a glazing sealant

Tests and certificates:
ISO 11600 F 20 HM
AENOR Certificate N°047/000279