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**Material Technical Data Sheet**

**FORMOA 006**

Reviewed on 24 April 2006

**TECHNICAL CHARACTERISTICS**

Base	MS Polymer®
Consistency	Stable Paste
Curing System	Moisture Cure
Skin Formation (*)	Ca. 10 min. (20°C/65% R.V.)
Curing Rate (*)	2-3mm/24h (20°C/65% R.V.)
Hardness	45 + 5 Shore A
Change in Volume	<2%
Specific Gravity	1.67g/ml
Maximum Deformation	+20%
Temperature Resistance (fully cured)	-40°C until +90°C
Elasticity Modulus	100% 0.9N/mm <sup>2</sup> (DIN 53504)
Tear Strength	2.0N/mm <sup>2</sup> (DIN 53504)
Elongation at Break	>650% (DIN 53504)
Shear Strength	>1.4N/mm <sup>2</sup>
Substrate	AlMgSi1
Thickness	2mm
Shear velocity	10mm/min

(\*)These values may vary depending on environmental factors, such as: temperature, moisture and type of substrates.

**PRODUCT**

Formoa 006 is a high quality single component joint sealant, with high adhesive strength based on MS Polymer®. It is chemically neutral and fully elastic. For use in low movement joints in construction, automotive, marine and aerospace areas, where a tough, flexible rubber is required.



## CHARACTERISTICS

- High bond strength on nearly all surfaces
- Excellent adhesion on porous and non porous substrates
- High performance mechanical properties
- Flexible elastic rubber - movement accommodation up to 20%
- Straightforward application even in adverse conditions
- No bubble formation within sealant (in high temperature and humidity applications)
- Primerless adhesion (except where capillary water pressure can occur)
- Very easy to tool and finish
- Good extrudability and UV resistance
- 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
- Resistance to many chemicals
- No staining of porous materials such as natural stone, granite, marble, etc.

## APPLICATIONS

- Sealing and bonding in the building industry.
- Structural bonding in vibrating constructions.
- Sealing of trafficated floor joints and low movement wall joints
- Joints in high rise constructions.
- Connection joints in sheet metal fabrication.
- Supple bonding in car bodies, caravans and containers.

## PACKAGING

*Colour:* White, black, grey, concrete grey, other colours on request

*Packaging:* Cartridge 290ml, Foil Bag 600ml, hobbock 20L and drums 200L on request

## SHELF LIFE

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 and chlorinated hydrogens.

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## SUBSTRATES

*Nature:* Clean, dry, free of dust and grease  
*Priming:* Porous surfaces should be primed with **Primer 150**.  
**Formoa Surface Activator** may be used on non porous surfaces.

We recommend preliminary compatibility tests previous to application.

## JOINT DIMENSIONS

*Minimal width:* 2mm (bonding)  
5mm (joints)  
*Maximal width:* 10mm (bonding)  
30mm (joints)  
*Minimal depth:* 5mm (joints)  
*Recommendation:* width of joint = 2X depth of joint

## APPLICATION

*Method:* Manual or pneumatic caulking gun  
*Application temperature:* +1°C until +30°C  
*Cleaning:* White Spirit or **Surface Cleaner** immediately after application and before curing  
*Tooling:* With soapy solution before skin formation  
*Repair with:* **Formoa 006**

## HEALTH AND SAFETY RECOMMENDATION

Apply the usual industrial hygiene

### Remarks:

Formoa 006 may be overpainted with water based paints, however, due to the large number of paints and varnishes available, we strongly advise a compatibility test before application. The drying time of alkyd resin based paints may increase. Formoa 006 can be applied to a wide variety of substrates. Due to the fact that specific substrates, such as: plastics, polycarbonates, etc, may differ from manufacturer to manufacturer we recommend preliminary compatibility tests.

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