

Technical Data sheet

MS4 SEAL PU 40 FC

High quality polyurethane sealant / adhesive

Product Description

MS4 Seal PU 40 FC is a high quality one component polyurethane sealant with a high modulus (Shore A 40) for a wide range of sealing and bonding applications. PU40FC has an advanced rheology making it easy to gun, but with an excellent slump resistance. The modified curing system means PU40FC has an exceptionally low isocyanate content.

Characteristics

MS4 Seal PU 40 FC is an easy to gun, easy to tool, elastomeric Polyurethane sealant and adhesive which is permanently elastic when cured, has excellent adhesion to many substrates, and good resistance to many chemicals.

Applications

MS4 Seal PU 40 FC finds many uses in the vehicle trade, mainly in sealing seams and joints prior to painting. It is also used as a sealant and adhesive in caravan manufacture and repair, motorhomes, sealing and bonding in metal constructions, gluing of roof tiles, flexible bonding in container manufacture and bonding sheet materials in the construction industry. MS4 Seal PU40FC has also been used as a joint sealant in concrete flooring and walls.

Packaging and Colours

Colours:	White – Grey – Black
Packaging:	Aluminium cartridge of 300 ML

Shelf life

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

Technical Data

Base:	Polyurethane
Consistency:	Stable Paste
Curing System:	Moisture Cure
Skin Formation:	ca 50 min (23°C/50% relative humidity)
Curing Rate:	3mm/24h (23°C/50% R.H.)
Hardness:	40 ± 5 Shore A
Applicatyon temperature	10 to 30°C
Specific Gravity:	Black 1.16 ± 0.05; Others 1.18 ± 0.05
Temperature Resistance:	-40°C until +90°C
Elongated at break:	ca 600%
Elasticity Modulus 100%:	ca 0.5MPa (70 psi)
Breaking Strength:	2 N/mm ² (DIN 53504)
Max Allowed Distortion:	15%
UV Resistance	Good
Water and salt spray resistance	Excellent

Surfaces

Substrate: Most of the usual substrates in vehicles and construction, most metals, polyesters and many other plastics, glass (not for bonding vehicle glass), stone, masonry, ceramic tiles et

State of surface: Clean, dry and free from dust and grease.

Joint Size

Min. Width: 2mm in bonding
applications 5mm in joints
Max. Width: 10mm in bonding
applications 30mm in joints
Min. Depth: 5mm in joints
Recommendation: Joint depth = Joint width

Application

Application method: Manual or pneumatical caulking
Application temperature: gun +10°C to +30°C
Cleaning: Clean with white spirit immediately after application
Finishing: Smoothen joint with a soapy solution before skin forming

Transport Information

Non hazardous for all means of transport.

Labelling

Symbol: None
Risk phrases: None
Safety phrases: None
Contains: Isocyanates
Additional: Contains isocyanates. May produce an allergic reaction. Contains Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction

More information:

When painted with oxidative drying paints, disturbances in the drying of the paints may occur. Adhesion must be tested for compatibility by carrying out preliminary trials.

Please consider that the hardness and film thickness may impair elasticity of the sealant, thus the curing reaction proceeds slower and may lead to cracking of the paint.

Avoid direct contact with isocyanate reactive substances, especially alcohol such as spirit, dilutions and cleaning compounds until the adhesive has obtained full cure.

This will prevent the adhesive from curing properly. Data contained in this document is for information only and is believed to be reliable. Multi Supplies 4U Ltd cannot assume responsibility for results obtained by others over whose methods we have no control.

It is the user's responsibility to determine suitability of the product for any specific purpose and Multi Supplies 4U is pleased to provide a sample upon request.

Before using this product ensure that you have been supplied with and have read carefully the following information.

- The hazard label (complying with latest CDG/CPL regulations) applied to the container.
- Material Safety Data Sheet, MS4 Seal PU40FC.