BOSTIK PSR 40-01

POLYURETHANE SPECIAL RANGE

KEY FEATURES

- High Elasticity
- Suitable for sealing applications
- Cost effective

DESCRIPTION

BOSTIK PSR 40-01 is a highly elastic sealant with good recovery properties based on polyurethane polymers (PU).

Due to its good elasticity and low hardness, it is especially suitable for applications that are subject to large movements.

BOSTIK PSR 40-01 exhibits good non-sagging properties with excellent adhesion performance on a wide variety of substrates (except plastics) it can be overpainted with most water-based paints.

APPLICATIONS

- Sealing in general automotive and transportation constructions e.g. bus, caravan, train and truck
- Sealing of air conditioning equipment
- Sealing of aluminium (air-freight) containers

FEATURES

- High elongation with excellent elastic recovery
- Low isocyanate (<0.1%)
- Very good permanent elasticity
- Good non-sagging properties
- Paintable with most water based paints (due to the numerous different types of industrial paint a compatibility test is recommended before use, please consult with the paint supplier).

ADHESION

The use of Prep CS is recommended for most typical substrates e.g. stainless steel, aluminium, ceramic glass and PVC floor covering. Surfaces should be clean, dry and free from dust and grease before the application of Prep CS. Due to the wide variety of substrates available Bostik recommends adhesion testing prior to use (please contact your local representative for more information)

For more details on Prep CS consult the specific Technical Data Sheet.

TECHNICAL DATA

CHARACTERISTIC		VALUE
Basic material		Polyurethane
Curing method		Moisture
Specific gravity	**[g/ml]**	ca. 1.23
Skin forming time 23°C/50% R.H.	**[min]**	ca. 90
Open time 23°C/50% R.H.	**[min]**	<90
Curing speed after 24hrs 23°C/50% R.H.	**[mm]**	ca. 3
Shore A hardness		ca. 35
Volume change	**[%]**	< 10
Tensile stress (100%) ISO 37 (dumbbells)	**[MPa]**	ca. 0.5
Tensile stress at break ISO 37 (dumbbells)	**[MPa]**	ca. 1.5
Elongation at break ISO 37 (dumbbells)	**[%]**	ca. 750
E-Modulus (10%) ISO 37 (dumbbells)	**[MPa]**	ca. 2.0
Elastic recovery ISO 7389	**[%]**	ca. 85
Shear stress ISO 4587	**[MPa]**	ca. 1.0
Temperature resistance	**[°C]**	-30 to +70
Application temperature	**[°C]**	+5 to +40
UV and weather resistance		Medium
Colours (standard)		White, black
Packaging		600 ml sausages

METHOD OF USE

Bostik PSR 40-01 can easily be extruded with a hand or air pressure gun at temperatures between +5°C and +40°C.

In bonding applications, the substrates need to be assembled within 90 minutes (at 23°C/50% R.H.) of applying PSR 40-01. In general, a minimum adhesive thickness of 2 mm is recommended.

Bostik PSR 40-01 should be tooled or smoothed within 90 minutes (at 23°C/50% R.H.) using a spatula or putty knife, occasionally moistened with a soap solution (avoid soaps containing limonene as these can discolour the adhesive). Avoid soap solution penetrating between joint sides and adhesive, as this will cause loss of adhesion.

Cleaning tools or removing uncured residue of PSR 40-01 can be done with a clean colourless cloth, wetted with Simson Liquid 1 It is recommended to check for possible attack of the substrate by Liquid 1 before use.

STORAGE STABILITY

PSR 40-01 can be stored for up to 12 months in original, unopened containers stored in a vertical position in a dry place at temperatures between +5°C and +25°C.

FURTHER INFORMATION

The following publication is available on request:

- Material Safety Data Sheets (MSDS).

The information given and recommendations made herein are based on Bostik's research only and are not guaranteed to be accurate. The performance of the product, its shelf life, and application characteristics will depend on many variables, including the kind of materials to which the product will be applied, the environment in which the product is stored or applied, and the equipment used for application. Any change in any of these variables can affect the product's performance. It is the buyer's obligation, prior to using the product, to test the suitability of the product for an intended use under the conditions that will exist at the time of the intended use. Bostik does not warrant the product's suitability for any particular application. The product is sold pursuant to Bostik's Terms and Conditions of Sale that accompanies the product at the time of sale. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute permission, inducement, or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

SMART HELP

Please contact your local representative

Bostik S.A.
Colombes, France
Phone : +33 (0)1 49 00 90 00
www.bostik.fr

Bostik Ltd.
Stafford, UK
Phone : +44 (0) 1785 27 27 27
www.bostik.co.uk

Bostik GmbH
Borgholzhausen, Germany
Phone : +49 (0)54 25/801-0
www.bostik.de

Bostik B.V.
Oosterhout, The Netherlands
Phone : +31 (0) 162 491 000
www.bostik.nl