



ISR 70-03

SILYL MODIFIED POLYMER

TECHNICAL SHEET 01/10/2024

KEY FEATURES

- Elastic bonding adhesive
- Durable and reliable bonds
- Free from Isocyanate, Solvent and Silicone

DESCRIPTION

Bostik ISR 70-03 is a high quality elastic bonding adhesive, suitable for use on structures on industrial applications requiring high strength.

Bostik ISR 70-03 has excellent resistance to UV, weather and temperature, and exhibits excellent adhesion performance on a wide variety of substrates (minimal or no pre-treatment necessary) while it can be overpainted with most common industrial paints.

Bostik ISR 70-03 used with Dual SMP® technology guarantees an increased cure speed, extending application possibilities.

APPLICATIONS

- Elastic bonding in in mobility market applications
- Bonding of sunroof systems
- Bonding of roof elements
- Bonding of aluminium or polyester corner profiles
- Bonding of flooring systems

FEATURES

- Excellent UV-resistance and ageing properties
- Good adhesion on many substrates without the use of a primer
- Neutral, odourless and fast curing
- Paint compatible with most industrial paint and lacquer systems, both alkyd resin- and dispersion based.

(due to the numerous different types of industrial paint a compatibility test is recommended before use, please consult with the paint supplier).

TECHNICAL DATA

CHARACTERISTIC	VALUE	
Basic material		Silyl Modified Polymer (SMP)
Curing method		Moisture
Specific gravity	[g/ml]	ca. 1.5
Skin forming time 23°C/50% R.H.	[min]	ca. 10
Curing speed after 24 hrs 23°C/50% R.H.	[mm]	ca. 3
Shore A hardness		ca. 58
Volume change	[%]	ca. < 3
Tensile stress (100%) ISO 37 (dumbbells)	[MPa]	ca. 2.5
Tensile stress at break ISO 37 (dumbbells)	[MPa]	ca. 3.5
Elongation at break ISO 37 (dumbbells)	[%]	ca. 200
E-Modulus (10%) ISO 37 (dumbbells)	[MPa]	ca. 4.5
Shear stress ISO 4587	[MPa]	ca. 2.5
Glass transition (Tg)	[°C]	ca. -50
Temperature resistance	[°C]	-40 to +110*
Application temperature	[°C]	+ 5 to +40
UV and weather resistance		Excellent
Colours (standard)		White, Grey, Black
Packaging		290ml cartridge 400 & 600ml sausage 20l & 200L drums

* = 10 Cycles of 7 hours at 110°C followed by 17 hours at 23°C/50%RH.

ADHESION

Bostik ISR 70-03 adheres well without primer on most clean, dry, dust and grease free substrates. Due to the wide variety of substrates available Bostik recommends adhesion testing prior to use.

No adhesion will be obtained on untreated polyethylene, polypropylene and Teflon.

Where, due to great thermal or physical loads, high adhesion demands are required, the use of Bostik Prep CS or Prep M is recommended, especially under wet conditions. Prep CS and Prep M degrease and prepare the surface of the substrate for bonding in one single step.

On plain, untreated wooden surfaces and porous substrates, Bostik Prep P is recommended to prepare the surface for bonding. For more details on Prep CS, Prep M and Prep P consult the concerned Technical Data Sheet.

METHOD OF USE

Bostik ISR 70-03 can easily be extruded with a hand or air pressure applicator at temperatures between +5°C and +35°C. In bonding applications, the substrates need to be assembled within 15 minutes (at 23°C/50% R.H.) of applying ISR 70-03. A minimum adhesive thickness of 2 mm is recommended. Bostik ISR 70-03 should be tooled off or smoothed within 10 minutes (at 23°C/50% R.H.) using a spatula or putty knife, occasionally moistened with a watery soap solution (avoid soap containing limonene as these can cause discoloration of the sealant). Avoid soap solution penetrating between joint surface and adhesive, as this will cause loss of adhesion. Cleaning tools or removing uncured residue of ISR 70-03 can be done with a clean colourless cloth, wetted with Bostik Liquid 1.

STORAGE

ISR 70-03 can be stored for up to 18 months in cartridge and 12 months in sausage, in original, unopened container in a dry place at temperatures between +5°C and +30°C.

FURTHER INFORMATION

The following publication is available on request:

- Material Safety Data Sheets (MSDS).
- EN 45545; Complying to Hazard Level 3 according to requirement sets R1 and R7, horizontal and vertical interior surfaces and interior surfaces of gangways/air ducts.

SMART HELP

Please contact your local representative



DISCLAIMER

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