



# BOSTIK

## ISR 70-11 AP

### SILYL MODIFIED POLYMER

#### KEY BENEFITS

- Long open time
- Good cataplastm resistance
- Free from Isocyanate, Solvent and Silicone

#### PRODUCT DESCRIPTION

Bostik ISR 70-11 AP is a high-quality elastic adhesive with an extended open time suitable for use in high demand applications in transportation or other industrial sectors where cataplastm resistance is required. Bostik ISR 70-11 AP is specifically designed for application in hot/humid conditions.

#### APPLICATIONS

- Window bonding and sealing
- Elastic bonding in mobility market applications, e.g. Bus and Coach, Railway, etc.

#### FEATURES

- Very good 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).*

#### METHOD OF USE

Bostik ISR 70-11 AP can easily be extruded with a hand or air pressure applicator at temperatures between +5°C and +35°C. The speed of application can be increased by heating up to a maximum 70°C.

In bonding applications, the substrates need to be assembled within 30 minutes (at 23°C/50% R.H.) of applying ISR 70-11 AP, under hot humid conditions assembly should be carried out within 15 mins (at 35°/80% R.H.) of application.

A minimum adhesive thickness of 2 mm is recommended. Bostik ISR 70-11 AP should be tooled off or smoothed within 60 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 sides and adhesive, as this will cause loss of adhesion. Cleaning tools or removing uncured residue of ISR 70-11 AP can be done with a clean colourless cloth, wetted with Bostik Liquid 1.

TECHNICAL DATA		
<b>Basic Material</b>		Silyl Modified Polymer (SMP)
<b>Specific Gravity</b>	[g/ml]	ca. 1.4
<b>Skin Forming Time</b>	[min]	ca. 15
23°C/50% R.H.		
<b>Curing Mechanism</b>		Moisture
<b>Curing Speed</b>	[mm]	ca. 2.5
23°C/50% R.H.		
<b>Shore A Hardness</b>		ca. 65
<b>Colour</b>		Black
<b>Volume Change</b>	[%]	ca. < 3
<b>Tensile Stress At 100%</b>	[MPa]	ca. 2.3
<b>Tensile Stress At Break</b>	[MPa]	ca. 3.2
ISO 37 (dumbbells)		
<b>Elongation At Break</b>	[%]	ca. 350
ISO 37 (dumbbells)		
<b>E-Modulus</b>	[MPa]	ca. 6.0
ISO 37 (dumbbells)		
<b>Shear Stress</b>	[MPa]	ca. 2.0
ISO 4587		
<b>Glass Transition</b>	[°C]	ca. -59
<b>Temperature Resistance</b>	[°C]	-40 to +110*
<b>Application Temperature</b>	[°C]	+ 5 to +40
<b>UV And Weather Resistance</b>		Excellent

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

## PACKAGING DESCRIPTION

290ml cartridges  
600ml sausages  
20L pail

## ADHESION

Bostik ISR 70-11 AP 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.

Windows with a ceramic coating/frit on the glass surface should be thoroughly cleaned with Bostik Cleaner I prior to the application of ISR 70-11 AP. When no ceramic coating/frit is present, or when the coating provides insufficient protection against UV-radiation, the use of Bostik Prep G plus is mandatory to provide adequate UV-protection of the adhesive bond-line.

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 (TF) is recommended, especially under wet conditions. Prep CS and Prep M (TF) 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 G Plus, Prep CS, Prep M (TF) and Prep P consult the concerned Technical Data Sheet.

## STORAGE STABILITY

ISR 70-11 AP can be stored for up to 18 months in cartridge and 12 months in sausage, in the 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.

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