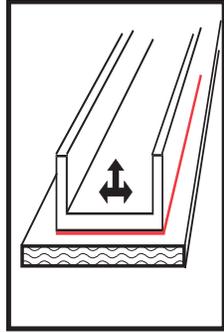




INDUSTRIAL SPECIAL RANGE



Bostik® 70-05A



ISR 70-05

The Simson Industrial Special Range is a range of high tech quality products especially developed for industrial applications.

PRODUCT

Bostik® 70-05A / Simson ISR 70-05 is a Silyl Modified Polymer (SMP) based adhesive with a higher green strength and higher tensile strength as Bostik® 70-05A / Simson ISR 70-03 and is suitable for making elastic constructive joints. Bostik® 70-05A / Simson ISR 70-05 can also be used as a sealant.

APPLICATIONS

- Elastic bondings and sealings: bus, caravan, train and truck construction
- Bonding of roofs on busses, trains, trucks
- Bonding of corner profiles of aluminium or polyester on trailers
- Bonding of polyester parts on metal frames
- Bonding of floor systems

FEATURES

- Solvent-, isocyanate- and PVC-free
- Very good UV-resistance and ageing properties
- In general, good adhesion on several substrates without the use of a primer
- Permanent elastic within temperatures from -40°F to 248°F (-40°C to +120°C)
- Neutral, odorless and fast curing
- Paint compatible with most industrial paint or lacquer systems, both alkyd resin and dispersion based (due to the large scale of different types of industrial paints a paint compatibility test is recommended)
- Paintable after skin forming (wet-on-wet); this will not influence the cure rate.

ADHESION

In general, Bostik® 70-05A / Simson ISR 70-05 adheres well without primer on clean, dry, dust and grease free substrates of aluminium, stainless steel, galvanised steel, zinc, copper, brass, powder coated metal, most lacquered metal surfaces, glass, PVC, polyester (GRP), painted and lacquered wood, etc. No adhesion on untreated polyethylene, polypropylene and teflon. In those cases where due to great thermal or physical loads, especially under wet conditions, high adhesion demands are needed, the use of Simson Primer M is recommended. Simson Primer M is a so called “wash primer” and degreases and prepares the surface of the substrate in one step. On plain, untreated wooden surfaces and other porous substrates Simson Primer P is recommended. For more details concerning Simson Primer M and Simson Primer P consult the specific technical information data sheet. For substrates not mentioned and for additional information consult Bostik Findley.

METHOD OF USE

Bostik® 70-05A / Simson ISR 70-05 can easily be extruded with a hand- or air pressure gun at temperatures between 41°F to 95°F (+5°C to 35°C). In sealing applications Bostik® 70-05A / Simson ISR 70-05 should be tooled or smoothed within 10 minutes (70°F/20°C @ 50% R.H.) with a spatula or putty knife, occasionally moistened with a soap solution. Avoid soap solution penetrating between joint sides and sealant, because this will create loss of adhesion. In bonding applications, the substrates have to be assembled within 15 minutes (70°F/20°C @ 50% R.H.) after applying Bostik® 70-05A / Simson ISR 70-05. In general an adhesive thickness of 2 mm is recommended.

Bostik® 70-05A / Simson ISR 70-05

At a temperature of 70°F (20°C) and a relative humidity of 50%, Bostik® 70-05A / Simson ISR 70-05 can be painted with the most industrial paints already 10 minutes after application. Best adhesion of paint coats is generally obtained if painted within 4 hours after applying Bostik® 70-05A / Simson ISR 70-05. Cleaning tools or removing uncured residue of Bostik® 70-05A / Simson ISR 70-05 can be done with a clean colorless cloth, wetted with Isopropyl alcohol. It is recommended to make a trial first to check possible attack of the substrate by Isopropyl alcohol.

TECHNICAL DATA

Basic Material	Silyl Modified Polymer (SMP)	
Curing Method	Moisture	
Specific Gravity	ca. 1.5 g/ml	
Skin Forming Time	ca. 10 min.	(70°F/20°C @ 50% R.H.)
Open Time	< 15 min.	(70°F/20°C @ 50% R.H.)
Cure Rate after 24 hrs.	0.125 in. (ca. 3 mm)	(70°F/20°C @ 50% R.H.)
Shore A Hardness	ca. 60	(DIN 53505)
Volume Change	< 3%	(DIN 52451)
Green Strength	ca. 500 Pa	(Physical Rheometer MC100)
(maximim load which can be applied per m ² uncured adhesive without sagging)		
Tensile Stress (100%)	390 psi (ca. 2.7 MPa)	(DIN 53504/ISO 37)
Tensile Stress @ Break	500 psi (ca. 3.5 MPa)	(DIN 53504/ISO 37)
Elongation @ Break	ca. 200%	(DIN 53504/ISO 37)
Shear Stress	435 psi (ca. 3.0 MPa)	(DIN 53283/ASTM D1002)
(Aluminum-to-Aluminum; adhesive thickness 2mm, test speed 50 mm/min.)		
Tear Propagation	ca. 17 N/mm	(DIN 53515/ISO 34)
(Type C, test speed 500 mm/min.)		
E-Modulus(10%)	700 psi (ca. 4.8 MPa)	(DIN 53504/ISO 37)
Solvent Percentage	0%	
Isocyanate Percentage	0%	
Temperature Resistance	-40°F to 248°F (-40°C to +120°C)	
Temperature Resistance	356°F (+180°C)	(max. 1/2 hr)
Application Temperature	41°F to 95°F (+5°C to +35°C)	
UV and Weather Resistance	Excellent	
Colors (Standard)	White, Black	
Packaging (Note: Sizes subject to change):	Bostik® 70-05A —20 oz. sausage, 52 gallon drum Simson ISR 70-05 —290 ml cartridge, 600 ml sausage, 20 L pail, 200 L drum	

STORAGE STABILITY

Bostik® 70-05A / Simson ISR 70-05 may be stored for 12 months in a closed (unopened) container in a dry place at temperatures between 41°F to 86°F (+5°C and +30°C); (cartridges 18 months).

SAFETY PRECAUTIONS

No specific safety precautions required. Consult safety data sheet.

TRANSPORT CLASSIFICATION

Not applicable.

Distributed by / Distributed by:

Bostik, Inc.

211 Boston Street
Middleton, MA 01949-2128 USA
Technical Service: 800-7/BOSTIK
FAX: 978-750-7293
www.bostik-us.com

IMPORTANT NOTICE

All statements, technical information and recommendations set forth herein are based on tests which Bostik, Inc. believes to be reliable. However, Bostik, Inc. does not guarantee their accuracy or completeness. The buyer should conduct its own tests of this product before use to determine proper preparation technique and suitability for proposed application. Any sales of this product shall be on terms and conditions set forth on Bostik's order acknowledgment. Bostik, Inc. warrants that the product conforms with Bostik, Inc. written specifications, and is free from defects. BOSTIK, INC. DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE BUYER'S SOLE REMEDY FOR NONCOMPLIANCE WITH THIS WARRANTY SHALL BE FOR THE REPLACEMENT OF THE PRODUCT OR REFUND OF THE BUYER'S PURCHASE PRICE. IN NO CASE WILL BOSTIK, INC. BE LIABLE FOR DIRECT, CONSEQUENTIAL ECONOMIC OR OTHER DAMAGES.

Manufactured by:

Bostik B.V.

Division Industry
P.O. Box 303
5201 AH 's-Hertogenbosch
The Netherlands
Tel. +31 (0)73 6244 330
Fax +31 (0)73 6244 331
E-mail: info@bostik.nl
Internet: www.bostik.nl

All figures, recommendations and safety precautions are based on thorough investigations and our actual experience and are without engagement. Although the documentation has been set up with most carefulness, we do not accept any responsibility for mistakes, inaccuracies or printer's errors. We reserve the right to adjust the product, whenever we feel necessary. Because the design, the quality of the substrate and the conditions during application fall beyond our control, no responsibility for executed works can be accepted on the basis of this documentation. We therefore recommend to carry out own tests on the spot. All our deliveries are subject to the General Terms and Conditions for the members of the Netherlands Association of Rubber and Plastics Manufacturers ("Nederlandse Vereniging van Rubber- en Kunststoffabrikanten").