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Bostik
smart adhesives

70-05A

HIGH QUALITY ADHESIVE AND SEALANT

KEY FEATURES

– High strength
– Good adhesion
– Primerless

DESCRIPTION

70-05A is a Silyl Modified Polymer (SMP) based adhesive with a higher green strength and higher tensile strength as 70-05A / 70-03A and is suitable for making elastic constructive joints.

FEATURES

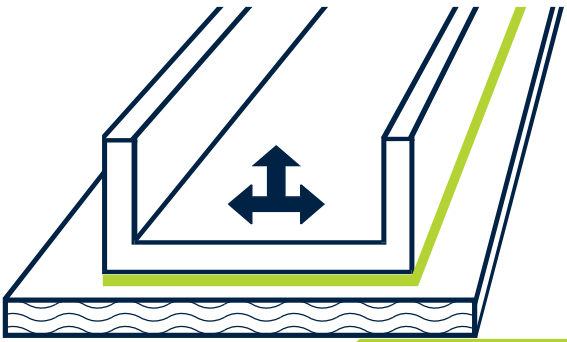
- Solvent, isocyanate, and pvc-free
- Very good UV-resistance and ageing properties
- In general, good adhesion on several substrates without the use of a primer
- Permanent elastic within temperatures from -40°F to 248°F (–40°C to +120°C)
- Neutral, odorless and fast curing
- Paint compatible with most 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.

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

ADHESION

In general, 70-05A 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



TRIM BONDING
PANEL BONDING
FLOOR BONDING

TYPICAL PHYSICAL PROPERTIES

Description	Results
Basic Material	Silyl Modified Polymer
Curing Method	Moisture
Specific Gravity	Approx. 1.5 g/ml
Skin Forming Time (70°F/20°C @ 50% R.H.)	Approx. 10 min.
Open Time (70°F/20°C @ 50% R.H.)	<15 min.
Curing Speed After 24 hrs. (70°F/20°C @ 50% R.H.)	0.125-in (3mm)
Shore A Hardness (DIN 53505)	Approx. 60
Volume Change (DIN 52451)	<3%
Green Strength (maximim load which can be applied per m^2 uncured adhesive without sagging)	500 Pa (Physical Rheometer MC100)
Tensile Stress (100%) (DIN 53504/ISO 37)	390 psi (2.7 MPa)
Tensile Stress at Break (DIN 53504/ISO 37)	500 psi (3.5 MPa)
Elongation at Break (DIN 53504/ISO 37)	200%

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TYPICAL PHYSICAL PROPERTIES (CONT)	
Description	**Results**
Shear Stress Aluminum-to-Aluminum Adhesive Thickness 2mm Test Speed 50 mm/min (DIN 53283/ASTM D1002)	435 psi (3.0 MPa)
Tear Propagation	Approx. 17 N/mm
E-Modulus (10%)	700 psi (4.8 MPa)
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

(GRP), painted and lacquered wood, etc. No adhesion on untreated polyethylene, polypropylene and PTFE. In those cases where due to great thermal or physical loads, especially under wet conditions, high adhesion demands are needed, the use of Primer M is recommended. 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 Primer P is recommended. For more details concerning Primer M and Primer P consult the specific technical information data sheet. For substrates not mentioned and for additional information consult Bostik.

METHOD OF USE

70-05A 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 70-05A should be tooled or smoothened 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 70-05A. In general an adhesive thickness of 2 mm is recommended.

At a temperature of 70°F (20°C) and a relative humidity of 50%, 70-05A can be painted with the most industrial paints 10 minutes after application. Best adhesion of paint coats is generally obtained if painted within 4 hours after applying 70-05A. Cleaning tools or removing uncured residue of 70-05A 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.

PACKAGING

For packaging options please call your Bostik sales or technical representative.

SHELF LIFE

70-05A 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).

HEALTH AND SAFETY PRECAUTIONS

No specific safety precautions required. Please refer to the SDS for complete details.

LIMITED WARRANTY

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BOSTIK HOTLINE

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This document supersedes all previously published literature.
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