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Bostik
smart adhesives

70-03A

HIGH QUALITY ADHESIVE AND SEALANT

KEY FEATURES

- Low residual tack
- Primerless adhesion
- Durable performance

DESCRIPTION

70-03A is a high quality adhesive and sealant based on Silyl Modified Polymer (SMP). 70-03A is designed for making elastic construction joints that require high strength.

FEATURES

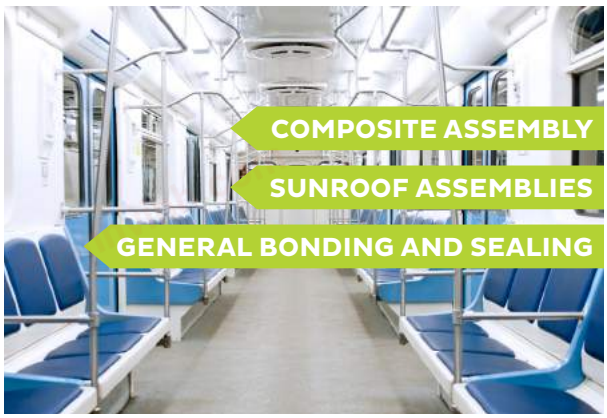
- Solvent, isocyanate, and pvc-free
- High green strength and with very good workability
- Good adhesion on many substrates without the use of a primer
- Permanently elastic within temperatures from -40°F to 212°F (-40°C to 100°C)
- Neutral, odorless and fast curing
- Paint compatible with most industrial 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

  Note: 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 change the cure rate of the bead.

BASIC USES

70-03A can easily be extruded with a hand or air pressure gun at temperatures between 45°F to 100°F (5°C and 45°C). In sealing applications, 70-03A should be tooled or finished 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, which will result in loss of adhesion.

In bonding applications, the substrates have to be assembled within 15 minutes (70°F/20°C @ 50%R.H.) after applying 70-03A. In general an adhesive thickness of 0.062 in. or 1/16 in. (2mm) is recommended.



TYPICAL PHYSICAL PROPERTIES

Description	Results
Basic Material	Silyl Modified Polymer
Curing Method	Moisture
Specific Gravity	Approx. 1.4 g/ml
Skin Forming Time	10 min.
Open Time	<15 min.
Curing Speed After 24 hrs.	0.125-in (3mm)
Shore A Hardness	Approx. 55
Volume Change	<3%
Green Strength	300 Pa (Physical Rheometer MC100)
Tensile Stress (100%)	245 psi (2.3 MPa)
Tensile Stress at Break	275 psi (2.6 MPa)
Elongation at Break	250%
Lap Shear Strength	360 psi (2.5 MPa)
E-Modulus (10%)	475 psi (3.3 MPa)
Temperature Resistance	-40°F to 250°F (-40°C to 120°C)
Temperature Resistance	350°F (180°C) (max 1/2 hr)
Application Temperature	40°F to 95°F (5°C to 35°C)
UV and Weather Resistance	Excellent
Colors (standard)	White, Grey, Black
Packaging	10.1 oz cartridge, 13.5 oz and 20 oz, 5 gal pail, 52 gal drum

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At a temperature of 70°F (20°C) and a relative humidity of 50%, 70-03A can be painted with most industrial paints 10 minutes after application. Best adhesion of paint coats is generally obtained if painted within 4 hours after applying 70-03A.

Cleaning tools or removing uncured residue of 70-03A can be done with a clean white/colorless cloth, moistened with isopropyl alcohol (IPA). Check substrate compatibility with IPA before proceeding.

APPLICATIONS

- Elastic bonding and sealing in these markets: bus, caravan, and trains, trucks
- Bonding and sealing of sunroof systems
- Bonding roofs on buses, trains, trucks
- Bonding corner profiles of aluminum or polyester on trailers
- Bonding polyester parts on metal frames
- Bonding floor systems
- Sealing welded seams

ADHESION

70-03A adheres well without primer on clean, dry, dust and grease free substrates of aluminum, stainless steel, galvanized steel, zinc, copper, brass, powder coated metal, most lacquered metal surfaces, glass, PVC, polyester (GRP & FRP), painted and lacquered wood, etc. No adhesion on untreated polyethylene, polypropylene and PTFE.

PACKAGING

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

SHELF LIFE

70-03A can be stored for 18 months in a closed (unopened) cartridge (sausages 12 months) in a dry place at temperatures between 41°F and 86°F (5°C and 30°C).

HEALTH AND SAFETY PRECAUTIONS

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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