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SIMSON® ISR Sealants for Transportation

SMP SEALING & BONDING SOLUTIONS



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ARKEMA
INNOVATIVE CHEMISTRY



Silyl Modified Polymers (SMP) by Bostik

The Bostik SMP formulation is developed to meet specifications of bonding strength, durability, and elasticity over a wide range of temperature and humidity conditions. Our range of products offers technical solutions for a variety of applications and customer requirements.

Industrial Special Range (ISR) Benefits

The Simson® ISR is a selection of high tech quality products especially developed for industrial applications.



EASY AND FAST

- ✓ No or limited surface preparation
- ✓ Strong and durable fixing
- ✓ Easy cleaning



HEALTH AND ENVIRONMENT

- ✓ Solvent free
- ✓ Isocyanate free
- ✓ Low VOC content



AESTHETIC AND LONGEVITY

- ✓ High UV resistance
- ✓ No bubbling
- ✓ Very good paintability

Bostik SMP applications

Bostik ISR 70-00 series is adapted to multiple applications :



SEALING

- » Permanently elastic sealant
- » High elongation at break
- » Suitable for applications subject to large movements



SEALING & BONDING

- » High elastic recovery
- » Short tack free time
- » Suitable for multiple substrates



BONDING

- » Excellent green strength
- » Good adhesion to non porous materials
- » Suitable in industrial applications requiring high overall performance



GLAZING

- » Very good green strength
- » Short drive-away time according to the FMVSS 212 crash test
- » Suitable for aftermarket applications



SIMSON® ISR 70-00 Series

SEALING							
Product	Packaging	Color	Skin Forming Time	Shear Stress	Elongation	Shore A Hardness	Information
ISR 70-01	Cartridge 290 ml	Black White Grey	30 min	0.5 MPa	350%	20	Formulated to withstand high thermal expansion
	Sausage 600 ml						

SEALING & BONDING							
Product	Packaging	Color	Skin Forming Time	Shear Stress	Elongation	Shore A Hardness	Information
ISR 70-03	Cartridge 290 ml	Black White Grey	10 min	2.5 MPa	200%	58	Multi-purpose adhesive
	Sausage 400 ml						
	Sausage 600 ml						
ISR 70-03 SSKF	Cartridge 290 ml	Black White	20 min	2.5 MPa	200%	58	Version of ISR 70-03 with a longer open time
	Sausage 600 ml						
	Sausage 400 ml	Grey					
ISR 70-03 FR	Cartridge 290 ml	Black	10 min	2 MPa	200%	50	World's first FR SMP sealant according to EN 45545 HL3
ISR 70-07	Cartridge 290 ml	Black Grey	60 min	1.1 MPa	200%	40	Easy sprayable sealant

BONDING							
Product	Packaging	Color	Skin Forming Time	Shear Stress	Elongation	Shore A Hardness	Information
ISR 70-05 AP	Cartridge 290 ml	Black White Grey	15 min	2.3 MPa	200%	60	2h SDAT for 2 airbags
	Sausage 400 ml						
	Sausage 600 ml						
ISR 70-05 AP SSKF	Sausage 600 ml	Black White	25 min	2.3 MPa	250%	60	Version of ISR 70-05 AP with extended open time

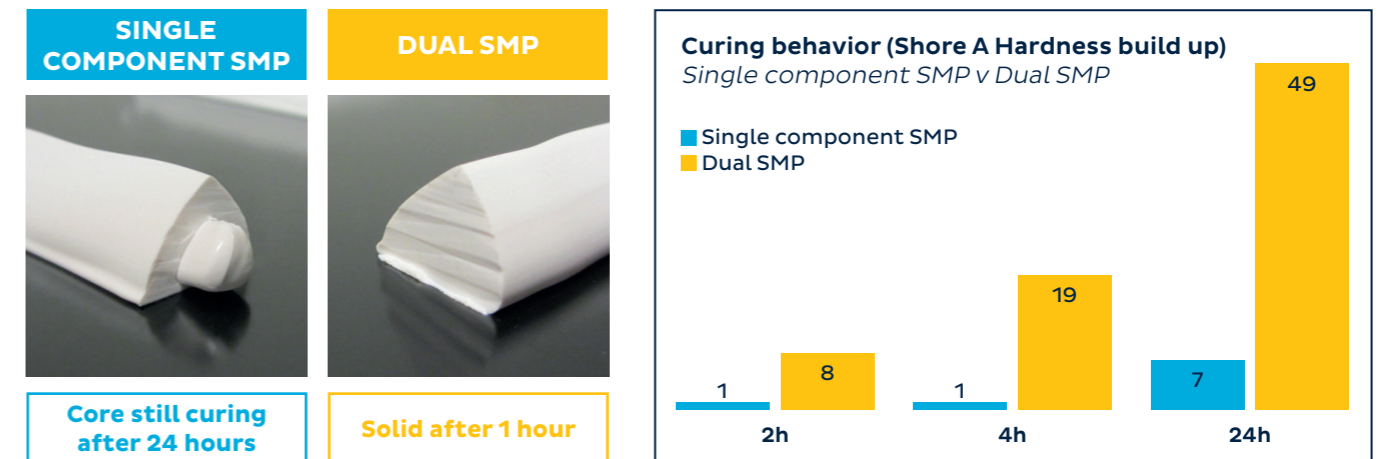
GLAZING							
Product	Packaging	Color	Skin Forming Time	Shear Stress	Elongation	Shore A Hardness	Information
ISR 70-08 AP	Cartridge 290 ml	Black White	10 min	2.3 MPa	200%	60	1h SDAT for 2 airbags
	Sausage 600 ml						
ISR 70-11 AP	Sausage 400 ml	Black	15 min	2 MPa	350%	65	1h SDAT for 2 airbags
	Sausage 600 ml						
	Catridge 290 ml						
	Drum 20 l						
ISR 70-12 AP	Cartridge 290 ml	Black	10 min	2.8 MPa	300%	65	30 mn SDAT for 2 airbags
	Sausage 400 ml						

SDAT: Safe Drive Away Time SSKF: Slow Skin Formation AP: Advanced Performance



Dual SMP system




The Dual SMP system produces a mixture with extreme green strength, faster cure times, and rapid total strength build up, which is independent from external influences (like humidity or temperature). This system operates using a gear-based transmission gun design that combines SMP (A-component) with an accelerator (B-component).







SIMSON® B-COMPONENT	
Technical Parameter	B-Component SMP
SPECIFIC GRAVITY (g/ml)	1.40
VISCOSITY (Pa.s)	100-300
VALUE	9
COLOR	White/black

BOSTIK SURFACE PREPARATION

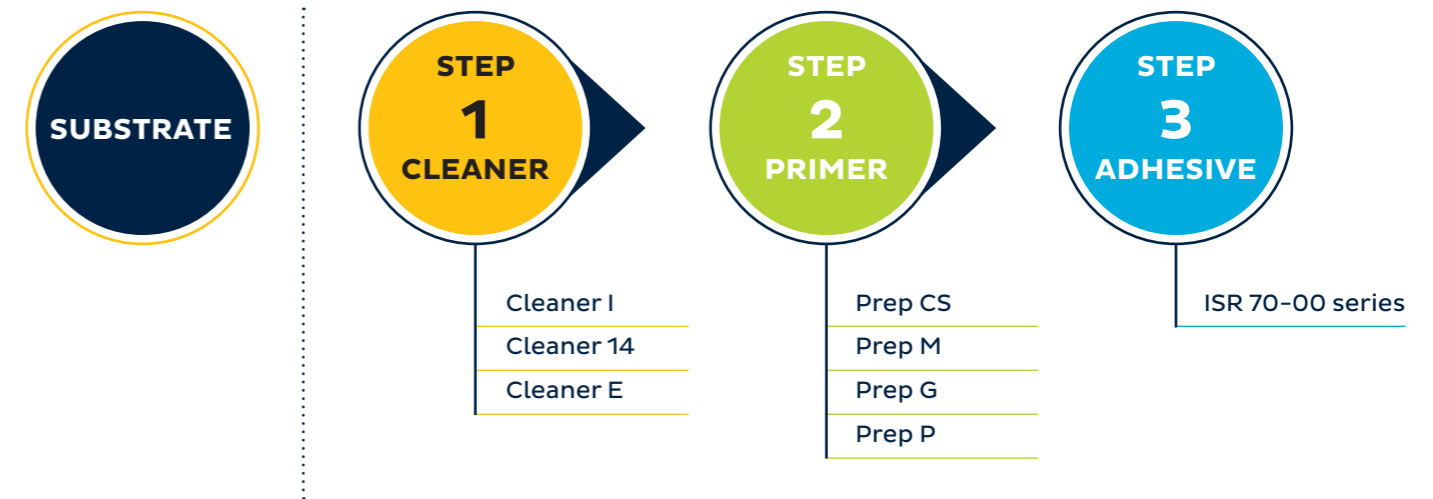
Our surface preparation product range provides a full system approach to include cleaning, priming & activating products. Effective surface preparation ensures the best final result.

CLEANING PRODUCTS			
CLEANER	COLOUR	INFORMATION	
 CLEANER I	Transparent	Cleaner I is an ideal cleaner for cleaning and degreasing of substrates.	
 CLEANER 14	Transparent	Cleaner 14 is an ideal cleaner for most surfaces such as metal, plastic, and composites.	
 CLEANER E	Transparent	Cleaner E is an ideal cleaner for cleaning and degreasing wooden substrates.	

PRIMING & ACTIVATING PRODUCTS			
PRIMER	COLOUR	OPEN TIME	INFORMATION
 PREP M	Transparent	5 to 20 min	Prep M is a pretreatment for plain aluminium, steel, copper and brass surfaces.
 PREP CS	Transparent	5 min	Prep CS is a one-step pretreatment for improvement of adhesion on closed substrates.
 PREP G	Black	5 min	Prep G has been developed as a black pretreatment for use on ceramic glass.
 PREP P	Transparent	20 min	Prep P is a pretreatment for the protection of teak wood and enhancing adhesion with wooden substrates

BOSTIK SUBSTRATE PRETREATMENT

ISR 70-00 series has been developed to be used primerless. When the substrates are dirty or stored for a long amount of time, a cleaner needs to be applied (Step 1). If you want to reach the highest bonding performance, we recommend to use a primer as pretreatment (Step 2) before applying adhesives.



SUBSTRATE	CLEANER	PRIMER
ALUMINIUM STAINLESS STEEL GALVANIZED STEEL	Cleaner I or Cleaner 14	Prep M or Prep CS
PAINTED STEEL PMMA	Cleaner I	Prep M or Prep CS
CERAMIC GLASS	Cleaner I	Prep M or Prep G
ABS PVC PU	Cleaner I or Cleaner 14	Prep M or Prep CS
CORK WOOD	Cleaner I or Cleaner 14	Prep P
TEAK WOOD	Cleaner E	Prep P
POLYESTER	Cleaner I or Cleaner 14	Prep G

This document is a general pretreatment overview created by Bostik and serves only as a guide. A DVS 1618 or 54457 test can be done on substrates to determine the right pretreatment. **Please contact your local Bostik representative for further information.**

