



March 18, 2005

Comparison of Bostik products vs. Sika 201, 221, 252, and Ultrafast

Manufacturer	Sika	Bostik	Bostik	Bostik	Bostik	Bostik
Product	201	LoVOC	1100FS	70-03	2100SPS	2175FS
Chemistry	Polyurethane**	Polyurethane**	Polyurethane**	SMP*	SPS*	SPS*
Function	--	economic sealer, general purpose	economic sealer, elastic bonding	primerless bonding or sealing	sealing large gaps and bonding	economic small gap filling
Skin Time (70°F/50%RH)	2-4 hours	45 minutes	60 minutes	10-15 minutes	50 minutes	30 minutes
Complete Cure (70°F/50%RH)	10 days	24 hours	1.5 - 3 days	24 hours	24 hours	24 - 36 hours
Shore A Hardness	40-45	35	37	55	30	45
Tensile Strength (psi)	200	125	150	400	160	210
% Elongation To Break	700	300	870	270	350	200
Shear Strength (psi)	120	90	65	250	110	110
Isocyanate- Based?	Yes	Yes	Yes	No	No	No
In-gassing?	Yes	Yes	Yes	No	No	No
Yellows upon aging?	Yes	Yes	Yes	No	No	No
Paintability after skin formation?	No	No	No	Yes	Yes	Yes
Service Temperature (after cure)	-40°F - 180°F	-40°F - 180°F	-40°F - 180°F	-40°F - 250°F	-40°F - 210°F	-40°F - 210°F

* SMP/SPS products do not typically need primers when bonded to metal

** Polyurethane products typically need primers when bonded to metal





Manufacturer	Sika	Bostik	Bostik	Bostik	Bostik
Product	221	1100FS	70-03	2100SPS	2175FS
Chemistry	Polyurethane**	Polyurethane**	SMP*	SPS*	SPS*
Function	--	economic sealer, elastic bonding	primerless bonding or sealing	sealing large gaps and bonding	economic small gap filling
Skin Time (70°F/50%RH)	50-90 minutes	60 minutes	10-15 minutes	50 minutes	30 minutes
Complete Cure (70°F/50%RH)	24 hours	1.5 - 3 days	24 hours	24 hours	24 - 36 hours
Shore A Hardness	45-50	37	55	30	45
Tensile Strength (psi)	225	150	400	160	210
% Elongation To Break	600	870	270	350	200
Shear Strength (psi)	165	65	250	110	110
Isocyanate- Based?	Yes	Yes	No	No	No
In-gassing?	Yes	Yes	No	No	No
Yellows upon aging?	Yes	Yes	No	No	No
Paintability after skin formation?	No	No	Yes	Yes	Yes
Service Temperature (after cure)	-40°F - 180°F	-40°F - 180°F	-40°F - 250°F	-40°F - 210°F	-40°F - 210°F

* SMP/SPS products do not typically need primers when bonded to metal

** Polyurethane products typically need primers when bonded to metal





Manufacturer	Sika	Bostik	Bostik	Bostik
Product	252	1152FS	70-03	70-05
Chemistry	Polyurethane**	Polyurethane**	SMP*	SMP*
Function	--	bonding, high green strength	primerless bonding or sealing	primerless, high modulus, high green strength bonding
Skin Time (70°F/50%RH)	30-45 minutes	30 - 45 minutes	10-15 minutes	15 minutes
Complete Cure (70°F/50%RH)	24 hours	24 hours	24 hours	24 hours
Shore A Hardness	55	77	55	60
Tensile Strength (psi)	550	270	400	500
% Elongation To Break	300%	280	270	200
Shear Strength (psi)	350	320	250	440
Isocyanate- Based?	Yes	Yes	No	No
In-gassing?	Yes	Yes	No	No
Yellows upon aging?	Yes	Yes	No	No
Paintability after skin formation?	No	No	Yes	Yes
Service Temperature (after cure)	-40°F - 180°F	-40°F - 180°F	-40°F - 250°F	-40°F - 250°F

* SMP/SPS products do not typically need primers when bonded to metal

** Polyurethane products typically need primers when bonded to metal





Manufacturer	Sika	Bostik	Bostik
Product	Ultrafast	70-08	70-12***
Chemistry	Polyurethane**	SMP*	SMP*
Function	--	Windscreen adhesive, passes FMVSS 212	Windscreen adhesive, passes 212, & 15 minute driveaway time
Skin Time (70°F/50%RH)	10-20 minutes	10 - 15 minutes	10-15 minutes
Complete Cure (70°F/50%RH)	24 hours	24 hours	24 hours
Shore A Hardness	60-70	65	65
Tensile Strength (psi)	800 to 900 psi	425	580
% Elongation To Break	500-600%	225	350
Shear Strength (psi)	600-700 psi	375	350
Isocyanate- Based?	Yes	No	No
In-gassing?	Yes	No	No
Yellows upon aging?	Yes	No	No
Paintability after skin formation?	No	Yes	Yes
Service Temperature (after cure)	-40°F - 190°F	-40°F - 250°F	-40°F - 210°F

* SMP/SPS products do not typically need primers when bonded to metal

** Polyurethane products typically need primers when bonded to metal

*** 70-12 is an experimental product and thus is not an available product at this time.

