P.O. BOX 1752, OREGON CITY, OR 97045 PH: (503) 657-8330 • FAX 655-8040 Web Site: www.oregonrule.com E-mail: sales@oregonrule.com

SDS - Adhesive

Product Description

FLEXcon's general purpose performance adhesive. This permanent acrylic adhesive offers medium tack, high shear and excellent adhesion to a variety of metal and plastic surfaces, including polypropylene, polyethylene, PORON® and Kushon® cellular rubber products.

Product	Adhesive Thickness	Adhesive Color
FLEXmount® TT 200 L-606/V-606	2.0	Clear
FLEXmount® TT 400 L-606/V-606	4.0	Clear

Performance Benefits

- L/V-606 bonds well to metal and plastic substrates.
- Adhesive exhibits exceptional performance on textured and uneven surfaces.
- The adhesive performs within a wide service temperature range of -40°F to 302°F (-40°C to 150°C).
- Adhesive thickness, liners and films can be customized to comply with different converting, assembly and end-use requirements.

Certification Recognition

- ISO 9001:2008 Certified Manufacturer
- UL Recognized

Finishing Options

Master Log rolls can be cut to meet the needs of your manufacturing process or end use requirements. Roll sizes start at 1". For custom finishing, standard charges apply.

Product Technical Data				
Expected Exterior Life	Dependent on life of substrate; adhesive is suitable for outdoor applications			
Service Temperature Range	-40°F to 302°F (-40°C to 150°C)			
Minimum Application Temperature	50°F (10°C)			
Storage Stability	Two years stored at 70°F (21°C) and 50% RH			

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- Kushon® is a registered trademark of Griswald Corporation.
- PORON® is a registered trademark of Rogers Corporation.

		Product T	echnical	Data: Co	ntinued			
Thickness (Mils [Microns])	Adhesive (+/- 10%) 1.9-2.1 (48-53) +/-0.1 (3)						ASTM D 3652	
		Average 15 min		Average 3 days RT		Average 3 days 160°F		
		Oz/in	(N/m)	Oz/in	(N/m)	Oz/in	(N/m)	ASTM D 3330 (Modified for dwell time)
Peel Average 90° angle 12"/min	Acrylic		-	89	(979)	-		(All mode less instead
	Glass	-	-	86	(946)	-	-	(All peels laminated to 2 mil foil)
	Polypropylene	-	-	23	(253)			
	Stainless Steel	65	(715)	83	(913)	161	(1771)	
Expected Shear	2.0 mil Clear	Polyester			2.0 mil Alum	inum Foil		ASTM D 3654 (1 hr. dwell, 1 sq. in.
(hours)	30				60			surface, 4 lb. load)
T 1 /)	2.0 mil Clear	Polyester			2.0 mil Alum	inum Foil		Method A
Tack (gm)	1650				1530)		ASTM D 2979
Thickness (Mils [Microns])	Adhesive (+/- 10%)	3.9-4.	1 (99-104) +/-0.	2 (5)				ASTM D 3652
		Average 15 min		Average 3 days RT		Average 3 days 160°F		
		Oz/in	(N/m)	Oz/in	(N/m)	Oz/in	(N/m)	ASTM D 3330 (Modified for dwell time)
Peel Average 90° angle 12"/min	Acrylic	-	-	111	(1221)	-		/All
, and the second	Glass			123	(1353)			(All peels laminated to 2 mil foil)
	Polypropylene	-	-	41	(451)			
	Stainless Steel	78	(858)	106	(1166)	208	(2288)	
Expected Shear	4.0 mil Clear	Polyester	ster 4.0 mil Aluminum Foil				ASTM D 3654	
(hours)	40			70				(1 hr. dwell, 1 sq. in. surface, 4 lb. load)
T 1 ()	4.0 mil Clear	Polyester		4.0 mil Aluminum Foil				Method A ASTM D 2979
Tack (gm)	1710			1440				
	Pro	duct Techn	ical Data	a: Humidi	ty Resista	nce		
	Adhesive on PM 200 Clear film 2.0 mil clear polyester						90° angle 12″/min 7 days + 24 hour recovery	
dhesion Retention Slight ghosting, 75% adhesion gain						All testing on SS panel at 100° and 95% RH. 24 hour dwell tim on SS panel before humidity exposure		
	Pro	duct Techn	ical Data	: Chemic	al Resista	nce		
Solvent				Adhesive on PM 200 Clear film 2.0 mil clear polyester				90° angle 12″/min
	1 hour at RT in	1 hour at RT in Gasoline (unleaded)			Edge penetration, 20% adhesion loss			
Adhesion Retention		1 hour at RT in MEK (Methyl Ethyl Ketone)			n, 15% adhesion lo	All testing on SS panel at 100° and 95% RH. 24 hour dwell tim on SS panel before humidity exposure		
	72 hours at 12	72 hours at 120°F (49°C) in Oil (SAE 10w-30)			e, 35% adhesion ga			
	72 hours at RT	72 hours at RT in Salt Water (6% by weight)			e, 60% adhesion ga			
	100 hours at R	Γ in Water		No visual change, 60% adhesion gain				

	Produc	t Techn	ical Data: U	L Surface	Test Resul	ts		
Application Surface	Polycarbonate Face Stock Thickness (mm)	Application Use	Temperature Range	Additional Conditions	Polyester Face Stock Thickness (mm)	Application Use	Temperature Range	Additional Conditions
Acrylic Paint (AC PT)	.127508	1/0	100°C to -40°C		.025051	1/0	150°C to -40°C	D, O, F2, G, K
Acrylic Paint (AC PT)	.127508	1/0	100°C to -40°C		.127254	1/0	150°C to -40°C	0
Acrylonitrile Butadiene Styrene (ABS)	.076508	1/0	80°C to -40°C	D, O, F2, G, K	.025051	1/0	80°C to -40°C	D, O, F2, G, K
Alkyd Paint (AK PT)	.127508	I	100°C to -40°C		.025051	1/0	150°C to -40°C	D, O, F2, G, K
Aluminum (AL)	.127508	1/0	100°C to -40°C	D, O, F2	.025051	1/0	150°C to -40°C	D, O, F2, G, K
Aluminum (AL)	.076508	1/0	80°C to -40°C	D, O, F2, G, K	.127257	1/0	150°C to -40°C	0
EPDM Rubber					.025051	1	80°C	
Epoxy (EP)	.127508	I	100°C to -40°C					
Epoxy Paint (EP PT)	.127508	I/O	100°C to -40°C		.025051	1/0	150°C to -40°C	D, O, F2, G, K
Epoxy Paint (EP PT)	.127508	1/0	100°C to -40°C		.127254	1/0	150°C to -40°C	0
Epoxy Powder Paint (RP PDR PT)	.076381	1/0	80°C	D, O	.025051	1/0	150°C to -40°C	D, O, G
Epoxy Powder Paint (RP PDR PT)	.381	I	80°C to -23°C	D, O, F2				
Galvanized Steel (GS)	.127508	1	100°C to -40°C		.025054	1/0	150°C to -40°C	D, O, F2, G, K
Melamine (ME)					.025054	1/0	100°C to -40°C	D, O, F2, G, K
Nylon - Polyamide (PA)	.127508	1	80°C to -40°C		.025054	1/0	100°C to -40°C	D, O, F2, G, K
Phenolic - Phenol Formaldehyde (PH)	.127508	1/0	100°C to -40°C		.025051	1/0	100°C to -40°C	D, O, F2, G, K
Polybutylene Terephthalate (PBT)	.127508	1/0	80°C to -40°C		.025054	1/0	80°C to -40°C	D, O, F2, G, K
Polycarbonate (PC)	.127508	I	100°C to -40°C		.025054	1/0	100°C to -40°C	D, O, F2, G, K
Polyester Paint (PER PT)					.025051	1/0	150°C to -40°C	D, O, F2, G, K
Polyester Powder Paint (PER PDR PT)	.076381	1/0	80°C	D, O	.025051	1/0	150°C to -40°C	D, O, G
Polyester Powder Paint (PER PDR PT)	.127508	1/0	100°C to -40°C	0	.127254	1/0	150°C to -40°C	0
Polyethylene (PE)	.127508	I	80°C to -40°C		.025054	1/0	100°C to -40°C	D, O, F2, G, K
Polyethylene Terephthalite (PET)	.127508	I	80°C to -40°C					
Polyphenylene Oxide(PPO)	.127508	I	80°C to -40°C					
Polyphenylene Oxide/Ether (PPOX)	.127508	I	80°C to -40°C		.025054	1/0	80°C to -40°C	D, O, F2, G, K
Polypropylene (PP)	.127508	I	40°C		.025054	1	80°C to -40°C	D, O, F2, G, K
Polystyrene (PS)					.025051	1/0	80°C to -40°C	D, O, F2, K
Polyurethane Paint (PUR PT)	.127508	I	80°C to -40°C		.025254	1/0	80°C to -40°C	D, O, F2, K
Polyurethane Powder Paint (PUR PDR PT)					.025051	1/0	150°C to -40°C	D, O, G
Polyvinyl Chloride (PVC)	.127508	1/0	100°C to -40°C		.025054	1/0	100°C to -40°C	D, O, F2, G, K
Porcelain (PRCLN)	.127508	I	100°C to -40°C		.025054	1/0	150°C to -40°C	D, O, F2, G, K
Stainless Steel (SS)	.076381	1/0	80°C to -40°C	D, O, F2, G, K	.025051	1/0	150°C to -40°C	D, O, F2, G, K
Stainless Steel (SS)	.127508	1/0	80°C to -40°C	0	.127254	1/0	150°C to -40°C	0
Unsaturated Polyester - Thermoset (UP)	.127508	1/0	100°C to -40°C		.025054	1/0	100°C to -40°C	D, O, F2, G, K

Application Use	Additional Conditions Key	USR Standard- UL 969
I= Indoor, O= Outdoor I/O= Indoor and Outdoor	D= Occasional exposure to Detergents F2= Occasional exposure to Fuel Oil #2 G= Occasional exposure to Gasoline (splashing) K= Occasional exposure to Kerosene O= Occasional exposure to lubricating oils	UL- PGGU2.MH10170; UL - PGJI2.MH16635 CUL - PGJI8.MH16635; CUL-PGG48.MH10170 All tests performed on 1 to 4 mil transfer tapes

Product Technical Data: Ink Adhesion								
Ink series	Facestock	Facestock Thickness (mm)	UL/CUL Regulation	Printing Process	Temperature Range	Indoor Use (Ink Color)	Outdoor Use (Ink Color)	Additional Conditions
Sun Chemical "PD"	Polycarbonate	.127508	UL	Screen	-40°C to 100°C	All	All	D, F2, G, K
Sun Chemical "PD"	Polycarbonate	.127508	cUL	Screen	-40°C to 100°C	AII`	All	
Nazdar "3400"	Polycarbonate	.127508	UL	Screen	-40°C to 100°C	All	All	0
Nazdar "3400"	Polyester	.127254	cUL	Screen	-40°C to 150°C	All	All	
Nazdar "Plastijet LL"	Polyester	.127254	cUL	Screen	-40°C to 150°C	All	All	D, O, F2, G, K
Gerber "CAT"	Polyester	.127254	cUL	Screen	-40°C to 150°C	All	All	0
Polymeric "Renegade 141 Fire Red"	Polyester	.127254	cUL	Screen	-40°C to 150°C	Red	Red	D, O, F2, G, K
Sericol "301" Bright White	Polyester	.127254	cUL	Screen	-40°C to 150°C	White	White	D, O, F2, G, K

Application Use	Additional Conditions Key	USR Standard- UL 969	
I= Indoor, O= Outdoor I/O= Indoor and Outdoor	D= Occasional exposure to Detergents F2= Occasional exposure to Fuel Oil #2 G= Occasional exposure to Gasoline (splashing) K= Occasional exposure to Kerosene O= Occasional exposure to lubricating oils	UL- PGGU2.MH10170; UL - PGJI2.MH16635 CUL - PGJI8.MH16635; CUL-PGG48.MH10170 All tests performed on 1 to 4 mil transfer tapes	

Standard Differential and Double-Faced Release Liners

200 Poly LA, Poly C2S

2.0 mil (52 microns) clear polyester liner is smooth for uniform adhesive wet-out. Conforms to tight angles and works well for automated assembly and robotic application. Ideal for roll-to-roll or roll-to-sheet.

Master Width 60"

55 LA K, 55 D/F K

3.2 mil (81 micron) white densified 55 lb. kraft liner for roll-to-roll converting. Ideal for rotary diecutting. Typical end-use applications include automotive underhood and safety/hazard and warning labels.

Master Width 60"

60 LA PFW, 60 D/F PFW

4.3 mil (109 micron) white polycoated 60 lb. layflat liner for roll-to-roll or roll-to-sheet converting. Provides excellent moisture stability for sheet processing. Typical end-use applications include graphic overlays.

Master Width 54" & 60"

84 LA PFT, 84 D/F PFT

6.4 mil (163 micron) tan polycoated 84 lb. layflat liner for roll-to-sheet converting. Ideal for kiss-cutting end tabs and nameplates. Typical end-use applications include thin and rigid nameplates.

Master Width 54" & 60"

Application Techniques

When applying pressure-sensitive adhesives it is necessary to provide pressure during lamination. Starting at the top peel back a 1 "section of the release liner, align and apply. Using a plastic squeegee, stiff cardboard, or a soft cloth will help provide the necessary pressure at the point of lamination. Continue removing the release liner and smooth out with the squeegee. Heat can increase bond strength when bonding to metal parts (generally this same increase is observed at room temperature over longer times, weeks). For plastic parts, the bond strength is not enhanced with the addition of heat.

For best results, the application surface and the surrounding ambient atmosphere should be 50°F (10°C) or above. If applying the adhesive below 50°F (10°C), the application surface should be cleaned with isopropyl alcohol (rubbing alcohol) to insure good initial adhesion.

When bonding a thin, smooth, flexible material to a smooth surface, it is generally acceptable to use 2 mils of adhesive. If a texture is visible on one or both surfaces, the 4 mil adhesive would be suggested. If both materials are rigid, it may be necessary to use a thicker adhesive to successfully bond the components.

Product Performance and Suitability

All of the descriptive information, the typical performance data, and recommendations for the use of FLEXcon products shall be used only as a guide and do not reflect the specification or specification range for any particular property of the product. Furnishing such information is merely an attempt to assist you after you have indicated your contemplated use and shall in no event constitute a warranty of any kind by FLEXcon. All purchasers of FLEXcon products shall be responsible for independently determining the suitability of the material for the purpose for which it is purchased. No distributor, salesman, or representative of FLEXcon is authorized to give any warranty, guaranty, or make any representation in addition or contrary to the above.

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