

POLYURETHANE ADHESIVE SEALANTS

3M polyurethane adhesive sealants are high quality formulations that provide a robust and consistent performance you can rely on.

HYBRID ADHESIVE SEALANTS

3M Hybrid technology offers excellent adhesion to a wide range of substrates with a fast skin time. They don't foam or bubble and have greater resistance to sunlight than Polyurethanes and are isocyanate free.

	540	550FC	560	590	755	755FC	760
Product Summary	Great for sealing and bonding materials with different coefficients of thermal expansion.	Great first choice multi purpose adhesive sealant.	Higher strength and adhesion, great for applications like panel bonding.	High modulus, high strength for glazing bonding applications	Similar to 755FC with a longer skin time.	Great first choice for most applications, fast-skin time and excellent adhesion.	Higher strength, firmer adhesive for bonding applications.
Technical Details	KEY: X = Good Choice XX = Best Choice PU = Polyurethane						
Sealing	XX	X	X	X	X X	X X	X
Bonding	X	XX	XX	XX	XX	XX	XX
Chemical Base	PU	PU	PU	PU	Hybrid	Hybrid	Hybrid
Relative Tensile Strength	Low	Medium	High	High	High	High	High
Temperature Resistance	-40°C to 90°C	-40°C to 90°C	-40°C to 90°C	-40°C to 90°C	-40°C to 100°C	-40°C to 100°C	-40°C to 100°C
Skin Formation Time (min) (ISO 291 23°C, 50%)	Approx 45 - 60 mins	50 - 90 mins	Approx 50 mins	25 - 40 mins	40 - 70 mins	10 - 30 mins	10 - 30 mins
Rate of Cure (ISO 291 23°C, 50% RH)	3.5mm / 24hr	4mm / 24hr	4mm / 24hr	3.5mm / 24hr	>2.5mm / 24hr	>2.5mm / 24hr	3mm / 24hr
Sagging (mm ISO 7390)	None	None	None	None	<2mm	<2mm	None
Shore A Hardness (ISO 868 - 3 Seconds)	Approx 40	Approx 45	Approx 55	60 - 65	>45	>45	55
Elongation at Break (ISO 37)	>600%	>600%	>400%	>700%	>250%	>250%	>300%
Modulus at Break (ISO 37)	0.9 MPa (ISO 8339)	1.4 MPa (Break)	c2 MPa	>6 MPa	>1.6 MPa	>1.6 MPa	>1.8 MPa
Isocyanate Free	No	No	No	No	Yes	Yes	Yes
Paintable	After skin formation	After skin formation	After skin formation	After skin formation	Even when wet	Even when wet	Even when wet
Typical Applications							
Seam Sealing	XX	XX	XX	XX	XX	XX	XX
Gap Filling	XX	XX	X	X	X	X	XX
Panel Attachment		X	XX		XX	XX	XX
Light Box Sealing					XX	XX	XX
Superior UV Resistance					XX	XX	XX
Window Bonding				XX*			

**For optimal adhesive sealant performance some surfaces benefit or require cleaning and priming before application for best long term performance*

PLEASE NOTE: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes. Properties are measured at 23°C and 50% humidity. Cure time is affected by substrates and environmental conditions.

Customers should assess suitability of products for their particular application as conditions can vary outside of 3M's control.

Primer Guide - Substrate reference and suggested primer cross reference	3M™ AdhesionPromoter / Cleaner AP596	3M™ Fritted Glass Primer P590	3M™ Plastic Primer P591	3M™ Metal Primer P592	3M™ Teak & Glass Primer P595	3M™ Adhesion promoter 111
Concrete/Stone/Marble/Brick					X	
Tinted Glass	XX				XX	
Fritted Glass	XX	XX				
Steel, anodised aluminium, galvanised metal				XX	X	XX
Polycarbonate	XX					
PVC	XX				X	XX
PMMA	XX		XX			XX
Polyester	XX		XX			X
Porosity Sealing			X		X	