

LOCTITE® ELASTOMERIC ADHESIVES AND SEALANTS

Elastomeric adhesives and sealants are the newest Loctite® product line. Products with “Flextec™ Technology” are based on Henkel’s proprietary polymer backbone. These products exhibit high resiliency while maintaining high tensile strength and good adhesion to many substrates – all without the use of a primer. All Loctite® Elastomeric products are isocyanate and solvent free, non-corrosive, and compatible with most paint systems.



Elastomeric Adhesives and Sealants are ideal for bonding and sealing a multitude of substrates, as well as in many applications where silicones cannot be used due to their incompatibility with paint systems. They combine the process of bonding and sealing into one single operation.

Significant Benefits

- Saves production costs by replacing conventional mechanical fasteners (screws, rivets, welding)
- No primer required – saving time and ensuring quality*
- No costly post-treatment of the bond surface is required, as is the case with welding
- Simplifies construction by increasing strength/rigidity to withstand dynamic loads
- Elastic bonding absorbs expansion of the joint
- Allows the most varied substrate combinations, e.g., metal/plastics, metal/glass, metal/wood, etc. and reduces and/or compensates stress caused by differential thermal expansion of joint substrates
- Compensates for the tolerances of the parts to be joined
- Elastic bonding insulates
- Prevents material fatigue and failure by achieving uniform transmission of the load (stress distribution) and by maintaining the structural integrity (no thermal or mechanical weakening of the parts)

Elastomeric Adhesive Comparisons

FEATURE	Loctite® Flextec™ Elastomerics	Polyurethane	Silicone
UNIVERSAL (SEALANT AND ADHESIVE)	●	●	●
PRIMERLESS ADHESION TO METALS	●	●	●
ELASTICITY	●	●	●
PAINT COMPATIBILITY	●	●	●
WEATHER RESISTANCE	●	●	●
UV RESISTANCE	●	●	●
NO MATERIAL STAINING	●	●	●
ADHESION TO WET SURFACES	●	●	●
NO SOLVENTS, NO ODOR	●	●	●

● Excellent ● Moderate ● Poor

*Certain materials, such as aluminum, still require pre-treatment.

Application	General Purpose Bonding/Sealing		Heavy Bodied/High Initial Tack																																																
	Easy-Gunning		High Elongation	High Shear Strength	Unlimited Depth of Cure																																														
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Solution	TOP CHOICE 5510™	TOP CHOICE 5570™	5512™	5572™	5590™																																														
Chemistry	Flextec™ Polymer	Flextec™ Polymer	Modified Silane Polymer	Modified Silane Polymer	Modified Silane Polymer																																														
Cure Method	Moisture	Moisture	Moisture	Moisture	Two-Component Static Mix																																														
Extrusion Rate** (g/min)	200	White - 150 Clear - 110	90	90	N/A																																														
Skin Time (min)	30	White - 30 Clear - 20	5	12	25																																														
Hardness Shore A	40	White - 55 Clear - 45	55	55	60																																														
Tensile Strength* (psi)	250	White - 380 Clear - 250	390	475	435																																														
Elongation at Break (%)	300	White - 230 Clear - 140	500	225	130																																														
Shear Strength on Steel (psi)	250	White - 400 Clear - 280	270	425	290																																														
Temperature Range	-40°F to 200°F	-40°F to 200°F	-40°F to 200°F	-40°F to 200°F	-40°F to 200°F																																														
Color	White Grey Black	White Clear	Black	Black	Black																																														
Product Description	A multipurpose product with outstanding adhesion and toughness, making it ideal for bonding/sealing between dissimilar substrates that are subjected to joint movement or impact. Offers fast skin time and cures to a tack-free surface.		High elongation and tensile strength give this product the best of both worlds. This product has good adhesion to many substrates, as well as good impact and peel resistance.		This product exhibits the highest shear strength on a majority of substrates versus the other products in this line.																																														
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* Grit-blasted steel

** Evaluated at 73°F, 3.5 mm diameter, 3 bar, for 15 seconds

‡ Pails available on a made-to-order basis

The Ultimate Tools

ALL-PURPOSE

- Fills gaps
- Seals and bonds at the same time
- High initial tack and short curing time
- Replace rivets and mechanical fasteners

ALL-MATERIAL

- Paintable – even wet surfaces
- No material staining
- Adheres to wide range of substrates

ALL-WEATHER

- UV and weather resistant
- Easy extrusion even at 40°F
- Vibration and sound damping

NO PRIMER REQUIRED

APPLICATIONS

- General assembly
- Seal expansion joints
- Seal precast panels
- Seal air or water penetration joints
- Bond trim and molding
- Bond roof or side panels to tubular frames
- Seal doors, windows, and skylights
- Seal wall penetrations
- Bond flooring to subfloor or metal frames
- Seal siding, roofing and gutters
- Seal parts that need to be painted

INDUSTRIES

- Appliances
- HVAC
- Signage/displays
- General maintenance
- Specialty vehicles
- Agricultural vehicles
- Trailers
- Busses
- Recreational vehicles
- Manufactured housing
- Metallic or wooden construction



INNOVATIVE TECHNOLOGY



Flextec™ Technology indicates the use of Henkel's proprietary materials that generate outstanding handling and performance characteristics in our adhesives and sealants. These non-silicone materials are designed for primerless adhesion, speed, and durability in all elastomeric applications.



LOCTITE® ELASTOMERIC ADHESIVES AND SEALANTS



featuring Flextec™ Technology – the new option for elastomeric bonding



Dispensing Tools Available

See our Loctite® Equipment Sourcebook, LT-3669 or visit us at www.equipment.loctite.com for more information.

Loctite® 300 ml Pneumatic Cartridge Dispenser



A manually controlled, pneumatically operated unit for dispensing Loctite® Elastomeric Adhesives & Sealants packaged in 300 ml cartridges. The operator controls the amount and rate of application using the dispense pressure, orifice size, and manual trigger.

Item No. 97002
 Dimensions: 8" H x 13.5" L x 1.5" D
 Weight: 18 lbs. (800 g)

CONTACT US

For more information on Loctite® Elastomeric Adhesives and Sealants, please contact us at:

Phone:
 1.800.LOCTITE (United States)
 1.800.263.5043 (Canada)

Website:
www.henkelna.com/oemnew

For other Loctite® branded products, please visit us at www.loctite.com

Henkel

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