

Gasketing

Gasketing Loxeal adhesives seal easily and efficiently flat mating surfaces and flanged joints on pumps, gearboxes, etc., in any setting, both vertically and horizontally. Several technologies are available: anaerobics, silicones, MS polymers.

BENEFIT:

- ◀ Replace conventional gaskets (in paper, cork, plastic etc.) and prevent loosening caused by gasket relaxation.
- ◀ Can adapt to different geometries.
- ◀ Excellent chemical resistance and flexibility.
- ◀ Solvent free.
- ◀ No additional thickness to the joint.
- ◀ Good resistance to high pressure, vibrations and high temperature (up to +250°C).
- ◀ Good resistance to oils, fuels and other chemicals
- ◀ Prevent oxidation and corrosion due to the contact.
- ◀ Possible to dismantle with common tools.
- ◀ Provide an almost instant sealing against low pressure.



CURE MECHANISM

AE Gaskets - react when in contact with metals, in absence of oxygen.

SIL and MS polymer Gaskets - react to moisture in the air.

USAGE ESTIMATOR ON GASKETS

	Packaging		
Bead diameter (mm)	50 ml	75 ml	300 ml
1.2	40 m	60 m	240 m
2	13 m	20 m	78 m
3	6 m	9 m	36 m
6	1,5 m	2 m	9 m

SUBSTRATES:

- ◀ Metal (anaerobic gaskets are suitable for metals only)
- ◀ Plastic
- ◀ Glass
- ◀ Ceramic
- ◀ Enamel
- ◀ Wood



It is recommended to use Loxeal Initiator 11 or 18 in combination with Loxeal anaerobic gaskets for:

- Surface activation for inactive or passive materials/coatings.
- Filling large gaps.
- Speeding up the cure times (during winter, on passive materials, etc.).

SURFACE CLASSIFICATION FOR ANAEROBIC ADHESIVES USE

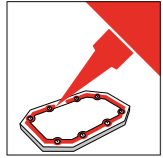
Very active (Very quick cure)	Active (Quick cure)	Inactive (Slow cure)	Passive (Initiator required)
Brass Copper Magnesium	Steel Nickel Iron Aluminum Zinc	Anodized aluminum Cadmium finishing Chrome finishing Passivated metals Stainless steel Titanium	Ceramic Glass Plastic Varnished finishing Lacquered finishing

DIRECTIONS FOR USE:

- ◀ It is recommended to apply the adhesive on clean and dried surfaces. Clean the surface with Loxeal Cleaner 10 or other suitable solvent.
- ◀ Dose the adhesive on the flange to create a continuous bead.
- ◀ Assembly parts right after have dosed the adhesive to avoid the sliding effect.
- ◀ It is possible to test the system at low pressure right after the assembly, to check if the bead is distributed properly on the bonding line.



For more information, please contact Loxeal technical support.



Gasketing

LEGEND *** VISCOSITY HT = HIGH THIXOTROPY - MT = MEDIUM THIXOTROPY - LT = LOW THIXOTROPY
F = FLUORESCENT

Liquid gasketing

GRADE	CLASS OF STRENGTH	MAX TOLERANCE OF THE JOINT	*** VISCOSITY (+25°C Pa.s) (LT-MT-HT)	COLOR	CURING TIME		ADHESIVE STRENGTH			TEMPERATURE RANGE (°C)	DESCRIPTION
					HANDLING (MIN.)	FUNCTIONAL (H)	SHEAR (ISO 4587) (N/nm ²)	TENSILE (ISO 6922) (N/nm ²)	IMPACT (ASTM D950) (KJ/m ²)		
28-10	Low Strength	0,30 mm	17-60 HT	GREEN/F	20 - 40	3 - 6	4 - 6	2 - 4	2 - 4	-55 +150	For flat mating metal surfaces and flanged joints on pumps, gearboxes, etc. Provide an elastic film, resistant to industrial fluids, oils, hydrocarbons, LPG, gas and other chemicals. Easy to dismantle.
58-14	Medium Strength	0,50 mm	28-100 HT	ORANGE	15 - 30	3 - 6	5 - 10	5 - 8	3 - 5	-55 +150	General purpose for flat mating surfaces. Provide a tough film, resistant to industrial fluids, water, oils, hydrocarbons, LPG, gas, methane gas, compressed air, refrigerating fluids and other chemicals.
58-31	Medium Strength	0,50 mm	70-600 HT	RED/F	10 - 20	1 - 3	8 - 13	7 - 10	4 - 7	-55 +180	For flat mating joints and flanged couplings with excellent performance at high temperature, up to +180°C. Precise and not-sagging application thanks to its high viscosity and thixotropy Provide an elastic film, resistant to gas, water, LPG, oils, hydrocarbons and other chemicals.
59-10	Medium Strength	0,50 mm	50-300 HT	RED/ORANGE	15 - 30	3 - 6	5 - 10	6 - 8	3 - 5	-55 +200	Paste, designed for rigid metal flanges with high coupling tolerance. Excellent performance at high temperature. Resistant to gas, water, LPG, oils, hydrocarbons and other chemicals.

Elastomeric & Plastic Gasket

GRADE	APPEARANCE	COLOR	CURING TIME		ELONGATION AT BREAK (%)	TENSILE STRENGTH (N/nm ²)	HARDNESS (SHORE A)	TEMPERATURE RANGE (°C)	DESCRIPTION
			INITIAL STRENGTH (MIN.)	BEAD (Ø 2 mm)					
59-20	PASTE	TRANSPARENT GREY/BLACK	15 - 30 15 - 30	24 ore 24 ore	400 - 600 400 - 600	0,8 - 2 0,6 - 1,5	20 - 30 20 - 30	-55 +180 -55 +180	1-part neutral silicone, no-odor, non-corrosive. Create very flexible gaskets, resistant to water, oils, compressed air and other chemicals. Suitable for sealing gearboxes, pumps and motors flanges, water and oil tanks, forced air pipes, and other flat mating couplings even made of different materials (metals, plastics, glass, etc.). Provide excellent performance at high temperature, up to +180°C.
59-30	PASTE	RED/BLACK	10 - 20	24 ore	300 - 600	1,5 - 2,5	25 - 35	-60 +250	1-part acetic silicone. Create very flexible gaskets, resistant to water, oils, gas, LPG and other chemicals. Suitable for sealing gearboxes, pumps, motors and compressors flanges, hot fluids pipes, and other couplings even made of different materials (metals, plastics, etc.). Provide excellent performance at high temperature up to +250°C, up to 300°C for short time.
59-30P	PASTE	BLACK	10 - 20	24 ore	300 - 600	1,5 - 2,5	25 - 35	-60 +250	1-part acetic silicone. Create very flexible gaskets, resistant to water, oils, gas, LPG and other chemicals. Suitable for sealing gearboxes, pumps, motors and compressors flanges, hot fluids pipes, and other couplings even made of different materials (metals, plastics, etc.). Provide excellent performance at high temperature up to +250°C, up to 300°C for short time. Easy to use pressurized cartridge.
59-40	PASTE	TRANSPARENT GREY	10 - 20 10 - 15	24 ore 24 ore	80 - 150 150 - 350	1 - 2 1,2 - 1,8	40 - 50 40 - 60	-40 +90 -40 +90	1-part MS polymer, no-odor, isocyanate-free. Suitable for sealing parts in a wide variety of materials such as glass, polystyrene, PVC, epoxy, steel, aluminum and wood, even enameled and varnished. It is paintable and creates flexible and resistant gaskets.