

## LOXEAL 59-40

### Description

Loxeal 59-40 is a one-component, non-slumping assembly sealant based on MS polymers. It is odorless, solventless, and free of isocyanates and it provides elastic, structural sealing with an excellent adhesion to many substrates without Primer. It is useful for sealing and fixing metal panels and sheets, bonding wood metal in door and window frames, bonding metal (U) profiles onto glasses, plastic sheets, painted surfaces, epoxy, polystyrene foam, PVC, steel, anodized aluminum, and wood, concrete, GRP, and uPVC.

Loxeal 59-40 has a good resistance to weather conditions, and it can cope with differential thermal expansions in heterogeneous joints, it is highly resistant to vibrations and it remains permanently elastic within the working temperature range.

Not suitable for PTFE, natural copper, bituminous surfaces applications, and underwater applications.

### Typical Physical Properties

Composition:	MS polymer
Color:	grey or black
Consistency:	Pasty
Application temperature:	+5°C/+35°C
Specific weight (g/ml):	1,55
Shelf life: 1 year at +5°C/+25°C in original unopened packaging	

### Typical Curing Properties at 25°C and 50% RH

Skin formation time:	10 min
Curing speed:	3 mm/24 h

### Typical Properties of the cured product

Paintability:	yes
Hardness - Shore A (DIN 53505):	55-60
Tensile strength at break (DIN 53504):	3 MPa
Elongation at break (DIN 53504):	250%
Modulus 100% (DIN 53504):	2 MPa
Temperature range:	-40°C/+100°C

### Storage

Keep the product in a cool and dry place at a temperature between +5 and +25°C. To avoid contamination do not refill containers with the used product. For more information on applications, storage, and handling contact Loxeal Technical Service

### Safety, handling, and disposal

Consult the Material Safety Data Sheet before use.

### Directions for use

Clean and degrease the surfaces with a suitable cleaner before bonding/sealing.

For bonding or sealing low surface energy plastics such as PE and PP apply Loxeal Primer 79 on bonding surfaces and allow drying.

The Loxeal 59-40 can be applied by gun onto only one part. Put the part in contact within 5 minutes by using adequate pressure. If necessary, maintain under pressure the parts until a complete curing.

When compressed, the thickness should be not lower than 1-2 mm in order to allow the correct curing and to exploit the adhesive and cohesive characteristics of the product. The cure is achieved by humidity, in the presence of nonporous surfaces it can be accelerated by nebulizing the parts with water before assembling.

Used as a sealant, the product is suitable for joints submitted to small movements only. Apply a continuous bead by using adequate pressure and avoid air entrapping. Tool with a wet spatula.

Please note that overpainting can modify the elastic properties of the sealant surface. The compatibility of the sealant with the paint must be previously verified by test. For best results, it is recommended to apply the paint when the sealant is completely cured.

After curing the product can be removed only mechanically, dirty tools can be solvent wiped.

### Note

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