

Preliminary
LOXEAL EH4836

Description

Loxreal EH4836 is a two-components adhesive based on MS polymer suitable for sealing and bonding applications on different material such as polycarbonate, ABS, Nylon and other plastics and metals. It provides excellent performances even in presence of significantly large gaps. Loxreal EH4836 is thermally conductive and self-extinguishing after cure, it is designed to comply to the requirements of Flame Retardancy UL94 V-0.

Typical physical properties

	Part A - Base	Part B - hardener
Composition:	MS resin	Polyol/Water
Colour:	white	light yellow
Viscosity (+25°C - Pa s):		thixo paste
Specific weight (g/ml):	1,5	1,5
Mixing Ratio (in volume):		2 :1
Maximum gap:		5 mm
Shelf life:	6 months @+25°C in original unopened packaging	

Typical curing properties at +25°C

Usable/Pot life:	20 minutes
Functional curing time:	72 hours
Colour after mixing:	light yellow

Typical properties of cured product

Shear strength: (+25°C stainless steel ISO 4587)	2 N/mm ²
Hardness Shore A:	60
Tensile strength @ RT:	2 MPa
Elongation at failure (DIN 53504):	>100%
Thermal conductivity:	1.05 W/(mK)
Temperature resistance:	-40°C/ +120°C

Storage

Keep product in a cool and dry room at no more than +25°C. To avoid contaminations do not refill containers with used product. For further information on applications, storage and handling contact Loxreal Technical Service.

Safety handling and disposal

Consult Material Safety Data Sheet before use.

Directions for use

• Surfaces preparation

For best results we recommend to scratch the surfaces with a tool and then to degrease and clean with Loxreal Cleaner 10 or Acetone and let dry for a few seconds.

• Mixing

The resin and the hardener need to be mechanically mixed before use in the ratio of weight and/or volume in compliance with technical specifications until a homogeneous colour is reached. Products are available in dual cartridges with static mixers (separately provided) allowing a direct and correct product application on the substrates to bond, completely discarding the first 3/5 cm of the extruded product. Avoid excess of product blend because heating produced by chemical reaction may cause risk and loss of product.

• Pot life

Pot life of the mixed product may vary from few minutes to some hours at room temperature according to the resin and the hardener used. Higher temperature reduces the pot life. Apply product at temperature higher than +20°C.

• Assembly

Parts to be bonded shall be assembled immediately after product application and kept close until full polymerization without providing any mechanical stress.

• Cleaning

Excess of product can be removed with Acetone or any other solvent based cleaner compatible with the substrates to bond. Application tools and dosing systems shall be cleaned before the product is hardened. Cured product can be removed only mechanically.

Note

The data contained herein, obtained in Loxreal laboratories, are given for information only; if specifics are required, please contact Loxreal Technical Department. Loxreal ensures abiding quality of supplied products according to its own specifics. Loxreal cannot assume responsibility for the results obtained by others which methods are not under Loxreal control. It is user's responsibility to determine suitability for user's purpose of any product mentioned herein. Loxreal disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Loxreal products. Loxreal specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.