

Technical Data Sheet

LOXEAL 4807

Registered Quality and Environment Management System Company

Description

Loxeal 4807 is a two-components adhesive based on modified epoxy resin for flexible bonding and sealing applications. It fully adheres to plastics like PA, ABS, PC, PET, PMMA, PI, metals ceramics and composites.

After full curing the adhesive looks soft and flexible. It provides high temperature resistance up to +120° with peaks to +150°C. Suitable for bonding and sealing glass fiber, metal frames in white appliances production (dishwashers, washing machine), and in automotive (lighting).

Physical properties

Related to product extruded by the proper mixer nozzle. The predetermined ratio between the two components is 10:1

Part A Part B hardener
Composition: epoxy resin based polyamine
Colour: white black
Viscosity (+25°C - mPas): 25.000 - 45.000 thixo
Specific weight (g/ml): 1.28 1.08

Gap to fill: 0.1 - 2.0 mm

Shelf life: 12 months in original unopened packaging.

Curing properties at +25°C (typical)

Mixing ratio (vol.):

Mixing time (max):

Usable/Pot life:

Colour after mixing:

Initial fixture time:

Functional curing time:

Overlap shear strength:

(at +25°C on steel) (ISO 4578)

10:1

7 - 10 minutes

10 - 20 minutes

20 - 25 minutes

7 days

4 - 10 N/mm²

Peeling strength (ISO 4578):

 Hardness: Shore A Shore D
 70 - 85

 20 - 30

 Tensile at break (DIN 53504) :
 2 - 4 N/mm²

 Elongation at break (DIN 53504) :
 120 - 200%

 Temperature resistance :
 -40°C +120°C

Directions for use

1. Surfaces preparation

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

2. Mixina

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 an 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.

3. 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.

4. Assembly

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

5. 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.

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 Loxeal Technical Service

Safety and handling

Consult Material Safety Data Sheet before use.

Note

60 - 80 N/25 mm

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^{**}Time detected on a 10g total mass mixture A+B