

Technical Data Sheet

Description

Structural single-part epoxy adhesive. It provides excellent adhesion to metal surfaces, aluminium, ferrites, ceramics as well as composite materials. Curing is affected in the temperature range +130°/+ 150°C, or alternatively by induction in seconds on steel parts. It guarantees effective thermal conductivity with high bond strength.

Suitable in application where heat dissipation is required, typically bonding of aluminium casted parts on ceramic manifolds. The cured adhesive has been designed to meet the fire retardency requirements of UL94 V-0.

Physical properties

Composition : Colour : Viscosity (+25°C - Pa s) Specific weight (+25°C - g/ml) : Gap filling : Sholf life :	epoxy resin black 400 - 600 thixo 1,56 0,5 mm
Shelf life :	12 months at +2°C/+7°C

Curing properties (typical)

Curing time :		
Temperature :	+130°C	≥ 60 min
	+150°C	≥ 30 min
Induction :		< 3 min

Curing time is affected by type of substrate (heat transmission), and by gap to be filled. It will also depend on time needed by the adhesive to reach this temperature - for example, large assemblies or crowded oven will require longer to reach full cure.

Alternative methods for fast curing include induction, infrared lamps and hot air guns.

Performances of cured product (typical)

Appearance :	black
Shear strength (ISO 4587) :	15 - 25 N/mm ²
Shore D Hardness :	75 - 85
Temperature range :	-40°/ +180°C
Thermal Conductivity (W/m K) :	ab. 1.3

Surface preparation

Clean and degrease surfaces with Loxeal Cleaner 10 before applying the adhesive.

Some metals such as aluminium, copper and its alloys will benefit from light abrasion with emery cloth (or similar), to remove the oxide layer.

Directions for use

- The adhesive should be dispensed from the cartridge via the nozzle supplied.

Apply the adhesive to one surface avoiding to entrap air.
Assemble parts applying enough pressure to ensure the adhesive spreads to cover the complete area to be bonded.
Use a jig / clamp to prevent parts moving during polymerisation.

Storage

Store refrigerated at temperature of +2°C/+7°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

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