

IRSL&L A-K083, IRSL&L A-K085 Methacrylate Structural Adhesives - Fast Cure, High Strength



Description

The IRSL&LA-K series of structural adhesives are a range of high performance, room-temperature curing paste materials. They are formulated to provide durable structural bonds on a wide variety of substrates. **IRSL&L A-K083** and **IRSL&L A-K085** are two-component adhesives based on methyl methacrylate (MMA) and are specifically formulated for improved bonding to plastic substrates. Originally developed for the automotive industry, these adhesives provide superior bond strength whilst adding very little weight to the completed product. Both adhesives are fast-curing, high-strength and impact resistant. They provide primerless adhesion to most metals, thermoplastics and composites.

Features & Benefits

- Convenient 1:1 mix ratio
- Robust primerless adhesion to composites and metals for optimum structural performance
- Non-flammable and low odour for improved occupational health and safety
- No shrinkage for reduced rework on bonded structures
- High tensile strength and elongation
- Cures quickly at room temperature
- Good resistance to common industrial chemicals, weathering, salt spray and ultraviolet radiation.

Specifications

IRSL&L A-K083, IRSL&L A-K085 Methacrylate Structural Adhesives - Fast Cure, High Strength



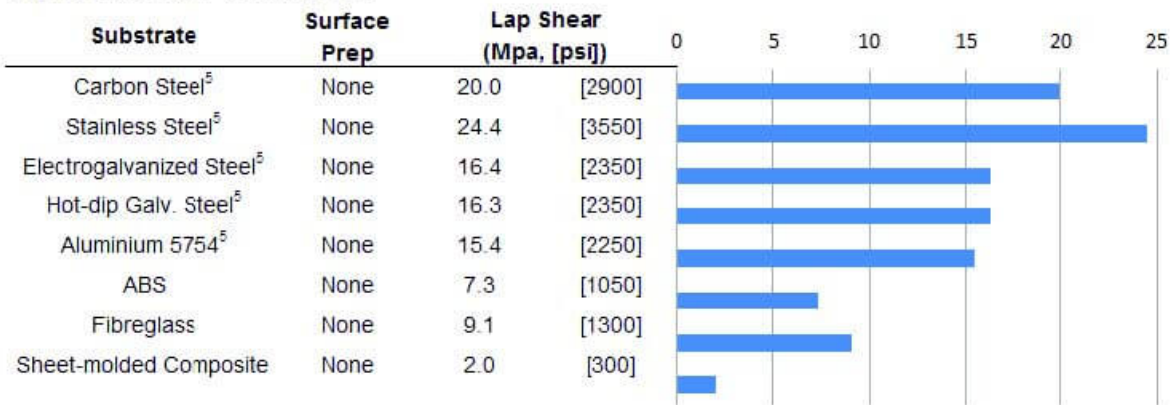
	IRSL&LA-K083	IRSL&LA-K083-Black	IRSL&LA-K085
Appearance	Tan thixotropic paste	Black thixotropic paste	Tan thixotropic paste
Cured colour	Amber	Black	Amber
Mix ratio	1:1	1:1	1:1
Working time	5-7 minutes	5-7 minutes	9-12 minutes
Fixture time	9-12 minutes	9-12 minutes	12-15 minutes
Viscosity	Part A: 50,000-90,000 cPs Part B: 90,000-140,000 cPs	Part A: 50,000-90,000 cPs Part B: 90,000-140,000 cPs	Part A: 120,000-160,000 cPs Part B: 150,000-200,000 cPs
Mixed density	0.97 kg/L	0.97 kg/L	0.97 kg/L
Service temperature	-50° to 120°C	-50° to 120°C	-50° to 120°C
Tensile strength	24.3 MPa	24.3 MPa	22.6 MPa
Modulus	1,670 MPa	1,670 MPa	1,550 MPa

IRSL&L A-K083, IRSL&L A-K085 Methacrylate Structural Adhesives - Fast Cure, High Strength



	IRSL&LA-K083	IRSL&LA-K083-Black	IRSL&LA-K085
Elongation at break	8-15%	8-15%	10-20%

Lap Shear Results - ASTM D1002



Lap shear results for IRSL&L A-K083

IRSL&L A-K083, IRSL&L A-K085 Methacrylate Structural Adhesives - Fast Cure, High Strength



Lap Shear Results - ASTM D1002



Lap shear results for IRSL&L A-K085

Ordering Information

Part number	Description
-------------	-------------

IRSL&L A-K083, IRSL&L A-K085 Methacrylate Structural Adhesives - Fast Cure, High Strength



Part number	Description
IRSL&LA-K083-50ML	A-K083 structural adhesive, fast cure, amber colour – 50ml cartridge with mixing nozzle
IRSL&LA-K083-400ML	A-K083 structural adhesive, fast cure, amber colour – 400ml cartridge with mixing nozzle
IRSL&LA-K083-KIT	A-K083 starter kit, including 1 x IRSL&LA-K083-50ML Double Syringe Cartridge, 1 x IDM805001 Syringe Gun, and 3 x IDMSMTW7-16 Mixing Nozzles
IRSL&LA-K083BLACK-50ML	A-K083 structural adhesive, fast cure, black colour – 50ml cartridge with mixing nozzle
IRSL&LA-K083BLACK-KIT	A-K083BLACK starter kit, including 1 x IRSL&LA-K083BLACK-50ML Double Syringe Cartridge, 1 x IDM805001 Syringe Gun, and 3 x IDMSMTW7-16 Mixing Nozzles
IRSL&LA-K085-50ML	A-K085 structural adhesive, fast cure, amber colour – 50ml cartridge with mixing nozzle
IRSL&LA-K085-400ML	A-K085 structural adhesive, fast cure, amber colour – 400ml cartridge with mixing nozzle

IRSL&L A-K083, IRSL&L A-K085 Methacrylate Structural Adhesives - Fast Cure, High Strength



Part number	Description
IRSL&LA-K085-KIT	A-K085 starter kit, including 1 x IRSL&LA-K085-50ML Double Syringe Cartridge, 1 x IDM805001 Syringe Gun, and 3 x IDMSMTW7-16 Mixing Nozzles
IDM805001	Dispensing gun, 50ml manual, 1:1/2:1
IDM814001	Dispensing gun, 400ml manual, 1:1/2:1
IDM824001	Dispensing gun, 400ml pneumatic, 1:1/2:1
IDMSMTW7-16	Static mixing nozzle – for 50ml cartridge – 1:1 ratio – round, twist lock
IDMSMTS9-24	Static mixing nozzle – for 200ml/400ml cartridge – 1:1/2:1 ratio – square

Supplied by:

intertronics

INTERTRONICS

12a Station Field Industrial Estate, Banbury Road, Kidlington

Oxfordshire England OX5 1JD

t 01865 842842 e info@intertronics.co.uk

IRSL&L A-K083, IRSL&L A-K085 Methacrylate Structural Adhesives - Fast Cure, High Strength



Last updated: June 2018 Version: 2.1

Statements, technical information and recommendations contained herein are based on tests we believe to be reliable but they are not to be construed in any manner as warranties expressed or implied. The user shall determine the suitability of the product for his intended use and the user assumes all risk and liability whatsoever in connection therewith.