

Technical data sheet



Product: 7240 B/A

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: KLEBSTOFF

Article group: 2-K KLEBSTOFF

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3M™ SCOTCH-WELD™ 7240 B/A FR

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Scotch-Weld™ Structural Adhesive 7240 B/A FR

Preliminary Product Data Sheet

September 2022
Supersedes: November 2018

Product Description

3M™ Scotch-Weld™ Epoxy Structural Adhesive 7240 B/A is a two-part, 1:2 mix ratio adhesive and contains glass beads for perfect control of minimal bond line thickness.

Key Features

- Long open time for large surface application
- Non sag properties
- Contains glass beads for thickness control
- High resistance to environmental exposure

Typical Uncured Properties

| | Accelerator (Part A) | Base (Part B) |
|-----------------------------------|----------------------------|----------------|
| Base Resin | Modified Amine | Modified Epoxy |
| Mix Ratio - by volume | 100 | 50 |
| - by weight | 100 | 52 |
| Colour | White | Black |
| Glass beads for bond line control | Yes, diameter 180 – 300 µm | |
| Full Cure | 2 days at 23 °C | |
| Application temperature range | 15 °C to 30 °C | |

| | Test method | Unit | Accelerator (Part A) | Base (Part B) |
|------------------|-------------------------------|-------------------|--|---------------|
| Specific Gravity | | g/cm ³ | 1.1 | 1.07 |
| Viscosity | Brookfield at 23 °C sp 5 2rpm | mPa.s | 106.000 | 158.000 |
| Work Life | ISO 10364 | - | 60 minutes for 20g 45 minutes for 50g | |

Performance Characteristics

Single Lap Shear - NF EN 1465

| Substrate | Temp. | OLS (MPa) |
|----------------------------|--------|-----------|
| Aluminium 2024 T3 (etched) | -40 °C | 23.3 |
| Aluminium 2024 T3 (etched) | 23 °C | 28.0 |
| Aluminium 2024 T3 (etched) | 70 °C | 14.7 |

Floating roller Peel - ISO 2243-2

| Substrate | Temp. | Peel (N/cm) |
|----------------------------|-------|-------------|
| Aluminium 2024 T3 (etched) | 23 °C | 91.8 |

Surface preparation

A thoroughly cleaned, dry grease-free surface is recommended for maximum performance. Cleaning methods, which will produce a break free water film on metal surfaces, are generally satisfactory.

- Abrading can be done using 3M™ ScotchBrite™ General Purpose Hand Pad 7447 for metallic fixtures and 3M™ ScotchBrite™ Roloc Surface Conditioning Disc TR Amed (ø 50.8 mm) for substrates.
- Sandblasting can be done with 6 bar pressure using FEPA 220 (53µm) white corundum at an angle of 45° relative to the surface.

The following cleaning methods are suggested for common surfaces:

Steel and Aluminium

1. Wipe free of dust with oil-free solvent such as acetone or isopropyl alcohol.
2. Sandblast or abrade using clean grit abrasives (180grit or finer).
3. Wipe again with solvent to remove loose particles.

If a primer is used, it should be applied within 4 hours after surface preparation.

If 3M™ Structural Adhesive Primer 1945 B/A is used, apply a thin coating (10µm) on the metal surface to be bonded, air dry at 24 °C for 1hr, then cure for 30 minutes at 82 °C, 5 minutes at 120 °C or 3 hours at 25 °C

Note: Aluminium may also be acid sandblasted. Follow the manufacturer's precautions and directions for this procedure).

Plastic/Rubber

1. Wipe with isopropyl alcohol*.
2. Abrade using fine grit abrasive (180 grit or finer)
3. Remove residue by wiping again with isopropyl alcohol*.

Glass

1. Solvent wipe surface using isopropyl alcohol.*

Note: When using solvents, be sure to extinguish all ignition source and follow manufacturer's precautions and directions for use.

| | |
|-----------------------------------|---|
| Storage & Shelf Life | <p>Store at 16 °C - 25 °C and 40-65 % relative humidity in its original box. The product can be stored up to 36 months after production.</p> <p><u>Note:</u> The shelf life may be shortened if the original packaging is not properly sealed or stored in an environment with high temperatures or humidity. Rotate stock on a “first in - first out” basis.</p> |
| Precautionary Information | <p>Refer to product label and Material Safety Data Sheet for health and safety information before using the product. For information please contact your local 3M Office. www.3M.com</p> |
| For Additional Information | <p>^^</p> <p>To request additional product information or to arrange for sales assistance, call..... Address correspondence to: 3M</p> |
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