



DATA SHEET NO. 7900-602

REZI-WELD™ FLEX
Semi-Rigid, Flexible Epoxy Joint Filler

DESCRIPTION

REZI-WELD FLEX is a grey, two-part, pourable consistency, premium-grade, moisture-insensitive, epoxy joint filler formulation. When cured, it is semi-rigid with a Shore D Hardness of 60.

USES

REZI-WELD FLEX was developed for use as a joint filler for narrow saw cuts, preformed and construction joints in interior concrete floors subjected to load bearing, wear or impact conditions, such as warehouse and industrial plants. These are floors which are typically subjected to hard-wheeled vehicles (such as forklifts).

REZI-WELD FLEX is also suitable for filling or repairing random cracks in slabs or as an embedded control wire sealant.

FEATURES/BENEFITS

- Fast setting, pourable and self-levelling; ideal for saw cut joints.
- As a semi-rigid filler, protects slab edges from spalling, yet allows sufficient flexibility for interior slabs.

Lineal Metres per Unit

| Joint Depth | Joint Width | |
|-------------|-------------|-----------|
| | 3 mm | 6 mm |
| 25 mm | 50 metres | 25 metres |
| 32 mm | 39 metres | 20 metres |
| 38 mm | 33 metres | 17 metres |
| 44 mm | 29 metres | 14 metres |
| 51 mm | 25 metres | 12 metres |

Lineal Feet per Unit

| Joint Depth | Joint Width | | |
|-------------|-------------|-------|------|
| | 1/8" | 3/16" | 1/4" |
| 1" | 154 | 102 | 77 |
| 1 1/4" | 123 | 82 | 61 |
| 1 1/2" | 102 | 68 | 51 |
| 1 3/4" | 88 | 58 | 43 |
| 2" | 77 | 51 | 38 |

TECHNICAL DATA*

| Typical Physical Property | Test Method | ACI Report 302.1 | Typical Value |
|---|-------------|------------------|--------------------|
| Solids, % by weight | ASTMD-1259 | 100%, min | 100% |
| Mix Ratio (A:B) | By volume | | 1:1 |
| Colour (A & B mixed) | Visual | | Grey |
| Consistency | Appearance | | Pourable |
| Pot Life of 3.8 litre (1 U.S. gal. unit), minutes | ASTM C 881 | | 20 |
| Thin film tack-free time, hours | ASTM C 879 | | 3.5 |
| Tensile adhesion to concrete @ 3 days | | | |
| 24°C (75°F) | ASTM D 5329 | | 2.00 MPa (290 psi) |
| Hardness: | | | |
| Shore D (7 days) | ASTM D 2240 | 50 min. | 60 |
| Shore A (7 days) | | | 95 |
| Tensile strength | | | |
| 24°C (75°F) (3 days) | ASTM D 638 | | 4.55 MPa (660 psi) |
| 24°C (75°F) (7 days) | | | 5.31 MPa (770 psi) |
| Elongation | | | |
| 24°C (75°F) (3 days) | ASTM D 638 | 6% min. | 72% |
| 24°C (75°F) (7 days) | | | 53% |
| Water Absorption | | | |
| 24°C (75°F) (24 hrs.), % by weight | ASTM D 570 | | 0.56% |
| Shrinkage | ASTM D 2566 | | Negligible |

- Colour (Mixed)** Grey
- Shelf Life** 2 years (in unopened, undamaged container)
- Packaging** 3.78 litre (1 U.S. gallon) unit
 37.85 litre (10 gallon) unit
- Coverage** 3785 cm³ (231 in.³) per unit

*All technical data is typical information, but may vary due to test methods, conditions, and operators.

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LEED INFORMATION

May help contribute to LEED credits:

- EQ Credit 4.1: Low Emitting Materials: Adhesives and Sealants
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

APPLICATION

Joint Preparation and Design ... Joints must be level, clean, and free from frost and standing water. Remove curing compounds, form release agents, old sealant, and/or contaminants from joint faces by sandblasting or mechanical abrading. Blow any dust, dirt and laitance out of the joint with oil-free compressed air prior to application. To prevent run out from cracks in the bottom of joints, apply a small amount of fine dry sand. Install full depth. Do not use with soft backer rod. Tape joint sides as to allow for easy removal of overfill.

Joint frequency, width, and depth shall be as specified by the design engineer. It is suggested that the width of a typical saw cut shall be 6.4 mm (1/4") maximum. The suggested depth should be 25% of the slab thickness, but no less than 25.4 mm (1") in depth.

Mixing ... Condition all components at 15.5 - 30°C (60 - 85°F) for 24 hours prior to use. Pre-mix each component. Mechanically mix at slow speed (600-900 rpm) using a drill and Jiffy® Blade or drum mixer for three minutes or until completely mixed while scraping the sides to ensure complete blending of components. The mixed product should be uniform grey in colour and not show streaks. Avoid air entrapment. Mix only very small quantities by hand for a minimum of three minutes or until sufficiently blended together using the supplied stirring stick. Scrape the sides of the container to ensure complete blending of components. Mix only the amount of epoxy that can be applied within the product's pot life. Pot life will decrease as the ambient temperature and/or mass size increases.

Dispensing ... Pour properly mixed product directly from can, dispense through a bulk caulking gun or positive displacement pump. Fill joint to top. If leakage occurs, reapply as necessary prior to product becoming tack-free.

Cleanup ... Prior to curing, clean all tools and equipment with toluene or xylene. Spilled material must be collected with absorbent material and disposed of in accordance with local, state, and federal regulations. Remove solid material mechanically.

SAFETY & TOXICITY

Avoid direct contact with this product. Both components may cause irritation as well as skin and respiratory sensitization. Component B is corrosive and may cause tissue destruction. In case of contact, immediately flush affected areas thoroughly with water for at least 15 minutes. Seek immediate medical attention. Unused epoxy will generate excessive heat, especially in large quantities. Unused epoxy should be mixed with dry sand in the container to help lower heat. Refer to Material Safety Data Sheet for complete health and safety information.

PRECAUTIONS

Do not use in vertical or sloping joints, or in areas subject to continuous water immersion. Do not use in joints designed for any significant movement (i.e. expansion or contraction joints). Do not apply when concrete temperature is below 4°C (40°F). This product is recommended for interior use only. It is not suitable for areas subject to sudden extreme temperature changes. Concrete must be a minimum of 28 days old, but for optimal results, allow the concrete to cure for a minimum of 56 days old prior to installation. REZI-WELD FLEX may discolour during curing when applied in areas heated by artificial heaters, which generate carbon dioxide, or when exposed to certain UV lighting systems or sunlight.

MASTERFORMAT 2004 NUMBER AND TITLE

Section 03 15 00 Concrete Accessories

For most current data sheet, further LEED information, and MSDS, visit www.wrmeadows.com.

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