



TECHNICAL DATA SHEET



Speed Set™ Instant Mix™ Epoxy

Description: LePage Speed Set Instant Mix Epoxy is a two-part adhesive consisting of an epoxy resin and a hardener. When mixed in equal volumes, the resin and hardener react to produce a tough, rigid, high strength bond which starts to set in 5 minutes and reaches handling strength in 1 hour. The static mix nozzle delivers a uniform mixture of resin and hardener every time. It can be used as an adhesive for a wide range of materials or as versatile filler for gap bonding, surface repairs and laminating. Speed Set Instant Mix Epoxy does not shrink and is resistant to water and most common solvents. It can be tinted with earth pigments, cement or sand for color matching and can be sanded and drilled.

Available As:

| Item # | Size | Package |
|---------|-------|----------------|
| 1028091 | 14 ml | Carded Syringe |

Features & Benefits:

- No Measuring or Mixing
- 5 Minute Set Time
- Dries Translucent Yellow
- Machinable
- Water and Chemical Resistant
- Will Not Shrink or Expand

Recommended For:

LePage Speed Set Instant Mix Epoxy bonds wood, metal, glass, ceramic, stone, porcelain, fiberglass, many rigid plastics, tile, and concrete. Can be combined with fiberglass cloth for a durable patch.

For Best Results:

- Not for use on nylon, polyethylene (PE), polypropylene (PP) and polytetrafluoroethylene (PTFE)/Teflon® or flexible materials
- Not suitable for continuously wet areas or water immersion



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Typical Uncured Physical Properties:

| | | |
|---|--|------|
| Color: | | |
| Hardener: | Yellow Liquid | |
| Resin: | Clear Colorless to Light Yellow | |
| Base: | Polymercaptan Hardener / Epoxy Resin | |
| Odor: | Amine | |
| Specific Gravity: | | |
| Hardener: | 1.10 | |
| Resin: | 1.04 | |
| Flash Point: | | |
| Hardener: | 257°C (494.6°F) | |
| Resin: | >150°C (>302°F) | |
| VOC Content: | 0.1% by weight | CARB |
| Shelf Life: | 18 months from date of manufacture (unopened) | |
| Lot Code Explanation: | YYYY MMXX | |
| Stamped on front of syringe above the label | YYYY = Year of manufacture MM = Month of manufacture XX = Disregard | |
| | For example: 2015 1171 Manufactured in November 2015 | |

Typical Application Properties:

| | | |
|--------------------------|---|--|
| Application Temperature: | Apply between 4°C (39°F) and 35°C (95°F) | |
| Gel Time (5g : 5g): | 5 to 7 minutes* | |
| Usable Strength: | 20 minutes* | |
| Cure Time: | 24 hours* | |
| | *Times are dependent on temperature, humidity and amount of adhesive used | |

Typical Cured Performance Properties:

| | | |
|---------------------------------|---|---|
| Color: | Translucent amber | |
| Cured Form: | Non-flammable solid | |
| Service Temperature: | -23°C (-9°F) to 49°C (120°F) -23°C (-9°F) to 150°C (302°F) | Long Term Exposure Short Term Exposure |
| Water Resistant: | Yes | |
| Sandable: | Yes | |
| Paintable: | No but can be tinted using earth pigments, cement or sand | |
| Tensile Shear Strength: | | |
| Cold Rolled Steel, Sandblasted: | | |
| 30 minute cure: | 4.92 N/mm ² (714 psi) | |
| 2 hour cure: | 16.44 N/mm ² (2384 psi) | |
| 4 hour cure: | 19.00 N/mm ² (2756 psi) | |
| 24 hour cure: | 22.14 N/mm ² (3211 psi) | |

Directions:

Tools Typically Required:

Utility knife (for syringe), disposable surface (e.g. foil, paper).

Safety Precautions:

Apply and cure in a well-ventilated area. Wear gloves and wash hands after use

Preparation:

Protect work area. Surfaces must be clean, dry and free from oil, wax and paint. Roughen smooth surfaces for better adhesion by sandblasting or sanding with an emery cloth. Wash glass and ceramic surfaces with soap and water then rinse and let dry. Pre-fit parts to be joined. Hold syringe with nozzle end up and pull plunger back slightly allowing air bubbles to rise to top. Snap cap off by pushing to the side (do not twist) and discard. Attach nozzle over syringe opening, push past prongs and turn 90° to lock in place. Dispense small amount of epoxy onto disposable surface to ensure mixer is working properly.



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Application:

Depress plunger to dispense epoxy directly onto one side of the surfaces to be bonded. Wipe syringe tip immediately. Join surfaces within 4 minutes of adhesive application. Immediately remove excess glue using mineral spirits or rubbing alcohol (follow manufacturer's instructions). Bond sets in about 5-7 minutes at 20°C (68°F) to 25°C (77°F). For best results in butt joints, apply adhesive as a reinforcing fillet or splint for additional support. Usable strength is obtained within 20 minutes. Warmer temperatures will shorten the set time and cooler temperatures will lengthen it.

Clean-up:

Remove and discard nozzle. Retract plunger slightly and wipe syringe tip. Remove cap from side holder and place on end of syringe. Clean excess glue immediately by wiping with clean cloth. Acetone may be used to assist in removal. Cured adhesive may be cut away with caution using a sharp blade. Prolonged immersion in paint stripper will soften the cured adhesive to aid removal. Note: Acetone is highly flammable and not compatible with all surfaces. Follow manufacturer's instructions and test on small area before applying.

Storage & Disposal:

Not damaged by freezing. If frozen, warm to room temperature until the resin and hardener become liquid enough to mix. Use an approved hazardous waste facility for disposal.

Label Precautions:

CAUTION. IRRITANT. MAY IRRITATE EYES AND SKIN. Do not get in eyes or on skin. May cause allergic skin reaction. **KEEP OUT OF REACH OF CHILDREN. FIRST AID TREATMENT:** Contains epoxy resins, polymercaptan and amine curing agents. If swallowed, call Poison Control Centre or doctor immediately. Do not induce vomiting. If in eyes rinse well with water for at least 15 minutes. If on skin, rinse well with water.

Refer to Material Safety Data Sheet (MSDS) for further information.

Disclaimer:

The information and recommendations contained herein are based on our research and are believed to be accurate, but no warranty, express or implied, is made or should be inferred. Purchasers should test the products to determine acceptable quality and suitability for their own intended use. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.



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Henkel Canada Corporation - Professional & Consumer Adhesives Headquarters – Mississauga, ON L5N 6C3
www.henkelna.com

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