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TECHNICAL DATA SHEET

LOCTITE®
EPOXY
QUICK SET™

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Item #	Package	Size
1395391	Carded Syringe	0.85 fl. oz. (25 mL)

DESCRIPTION

Loctite® Epoxy Quick Set™ 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 in 5 minutes for most projects. Available in a convenient dual syringe which delivers equal parts of both components every time. Loctite® Epoxy Quick Set™ can be used as an adhesive for a wide range of materials or as a versatile filler for gap filling, surface repairs and laminating. Loctite® Epoxy Quick Set™ does not shrink and is resistant to water and most common solvents. It can be tinted with earth pigments, cement or sand for colour matching. It can be sanded and drilled.

RECOMMENDED FOR:

Bonding metal, glass, ceramic, wood, many rigid plastics, china, tile, fiberglass, concrete and stone. Can be combined with fiberglass cloth for a durable patch.

NOT RECOMMENDED FOR:

- Polyethylene, polypropylene, nylon, polytetrafluoroethylene (PTFE)/Teflon® or flexible materials
- Applications requiring short-term heat exposure of greater than 302°F (150°C)
- Continuously wet areas or water immersion
- Potable water systems

FEATURES & BENEFITS

Feature	Benefits
Machinable……..	Won't crack when drilled
Can be tinted……..	Matches surrounding materials
Water-resistant……..	Can be used outdoors
Does not shrink..……..	One-time application
Convenient syringe……..	Dispenses equal amounts of each component every time
Sets in 5-10 minutes……..	Quick completion of project

DIRECTIONS

Tools Typically Required:
Utility knife, mixing tool/applicator (e.g. wooden stick) and disposable surface (e.g. foil or paper cup).

Safety Precautions:
Apply in a well ventilated area. Wear gloves and wash hands after use.

Preparation:
Surfaces must be clean, dry and free from oil, wax and paint. Roughen smooth surfaces for better adhesion by sandblasting or sanding with emery cloth. Wash glass and ceramic surfaces with soap and water then rinse and let dry. Pre-fit parts to be joined. Remove the plug from between the piston. Cut off the end tips of the syringe. Turn syringe end up and pull plunger back slightly allowing air bubbles to rise to top. Press plunger to expel air. Depress the double piston to dispense equal parts of the two materials on a disposable surface. Wipe syringe tips clean, retract piston slightly and close with the plug. Ensure that the plug is always placed in the same orientation on the tips. Mix resin and hardener for one minute thoroughly.

Application:
For best results apply a small amount of mixed adhesive to both surfaces within one to two minutes of mixing and press together. Placing parts together close to the 5 minute set time will reduce adhesion. Remove any excess glue immediately with acetone. Support bond for 10 minutes at room temperature. Usable strength achieved in 1 hour. Fully cured in 24 hours.

Clean-up:
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 AND 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

DANGER: Corrosive. Causes eye and skin burns. May cause allergic skin and respiratory reaction. May be harmful if absorbed through skin.

DANGER: Resin contains epoxy resin. Hardener contains polymercaptan and amine curing agents. Do not get in eyes or on skin. Do not breathe vapors. **FIRST AID:** For eye contact, flush with water for 15 minutes, call a physician. For skin contact, wash thoroughly with soap and water, call a physician if symptoms persist. If swallowed, DO NOT induce vomiting, call a physician. **KEEP OUT OF THE REACH OF CHILDREN.**

Refer to the 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.

TECHNICAL DATA

Typical Uncured Physical Properties

Color:	
Hardener:	Light yellow
Resin:	Colorless
Base:	Epoxy resin / Polymercaptan hardener
Specific Gravity:	
Hardener:	1.04
Resin:	1.17
Flash Point:	
Hardener:	>200°F (93°C)
Resin:	> 480°F (249°C)
VOC Content:	
(Resin & Hardener)	0.1% by weight
Shelf Life:	24 months from date of manufacture (unopened)
Lot Code Explanation:	For Example:

LB**3F**AC569

(Lot Code is stamped on back of syringe label)

3 = Last Digit in the Year of Manufacture
3 = 2013
(i.e. 1 = 2011, 2 = 2012, 3 = 2013, etc)

F = Month produced (see chart to the right)
F = 6th Letter of Alphabet
F = June

Typical Application Properties

Application Temperature:	39°F (4°C) to 95°F (35°C)
Odour:	Amine
Gel Time: (5 g : 5g)	4 to 10 minutes (Gel time is dependent upon temperature and the amount of adhesive used)
Usable Strength:	1 hour
Full Cure Time:	24 hours
	Note: Cure time is dependent upon temperature, humidity and amount of product used.

A – January
B – February
C – March
D – April
E – May
F – June
G – July
H – August
J – September (there is no I)
K – October
L – November
M – December

Typical Cured Performance Properties

Color:	Clear to amber
Service Temperature:	
Long Term Exposure:	-9°F(-23°C) to 120°F(49°C)
Short Term Exposure:	-9°F(-23°C) to 302°F(150°C)
Water Resistant:	Yes
Sandable:	Yes
Paintable:	No but can be tinted using earth pigments, cement or sand
Shore D Hardness (7 days):	80 ± 1
Tensile Shear Strength:	
Cold Rolled Steel, Sandblasted	
1 hour:	1322 ± 128 psi (9.11 ± 0.88 N/mm²)
4 hours:	2494 ± 78 psi (17.20 ± 0.54 N/mm²)
24 hours:	3437 ± 58 psi (23.70 ± 0.40 N/mm²)
7 days:	3426 ± 155 psi (23.62 ± 1.07 N/mm²)
Aluminum, Sandblasted, 24 hours:	2055 ± 290 psi (14.17 ± 2.0 N/mm²)
Compression Shear Strength – 24 hours:	
Hard PVC (White), Sanded:	1081 ± 199 psi (7.45 ± 1.37 N/mm²)
Acrylite FF, Sanded:	958 ± 268 psi (6.61 ± 1.85 N/mm²)
Maple:	2088 ± 243 psi (14.40 ± 1.68 N/mm²)
Water Resistance – Tensile Shear Strength:	
(Aluminum, Sandblasted, 7 day cure)	
Followed by 7 day Water Immersion:	2048 ± 160 psi (14.12 ± 1.10 N/mm²)
Solvent Resistance - Tensile Shear Strength:	
(Aluminum, Sandblasted, 7 day cure)	
Followed by 24 hour Gasoline Immersion:	3216 ± 275 psi (22.17 ± 1.90 N/mm²)
Side Impact Resistance:	6.8 Joules
(Cold Rolled Steel, Sandblasted, 1”x1”, 7 day cure)	