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Product Description Sheet

Product 445

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PRODUCT DESCRIPTION

LOCTITE® Fast Cure Epoxy Adhesive is an adhesive having a broad use in manufacturing and maintenance applications. It is a room temperature curing, two-component epoxy adhesive that is suitable for bonding metals, glass, ceramics, most plastics, wood and stone. They will also fill porosities and voids and may be used to build up surfaces that have been worn. When fully cured, they may be machined or sanded.

The adhesive is packaged in a pre-measured kit. This insures consistent performance since resin and hardener are always properly measured.

PRODUCT FEATURES

- Bonds almost anything to anything: metals, glass, stone, ceramics, woods, hard rubber, most plastics.
- Hardens in 5 minutes, eliminating long cure times.

PROPERTIES OF UNCURED MATERIAL (UNMIXED)

	Typical Value
Chemical Type	Epoxy/Mercaptan
Appearance	White/Black
Viscosity	Paste/Paste
Flash Point, TCC, °F (°C)	>200 (93)

DIRECTIONS FOR USE

1. Clean all bonding surfaces to remove all traces of dirt, grease and oil. Non-filming solvents such as acetone, lacquer thinner, Loctite Safety Solvent and MEK are suitable. Soap and water may be used on glass. Surfaces must be dry before bonding.
2. For maximum strength, surface abrasion is recommended. A fine to medium grit emery cloth or sandpaper is best. Wash after abrading.
3. Apply mixed adhesive to properly prepared surfaces. Apply a film of adhesive and apply light pressure evenly to spread the adhesive over as much surface as possible for best results.
4. Wipe off excess material.

Pre-measured Mixer Cup Kits

1. Peel off the clear plastic film from the top of the mixer cup.
2. Depress center of the cup to form the mixing bowl.
3. Mix until the product has a uniform color.

Bulk Containers

1. Use a clean mixing board or container. Weigh out proportionate amounts of resin and hardeners. Commercial proportioning equipment may be used.
2. Mix resin and hardener thoroughly until the color is uniform.

Cleanup

Uncured adhesive may be removed with organic solvents.

Cured adhesive may be removed with a commercial paint stripping solution. Consult the manufactures of these chemicals for use and handling instructions.

PROPERTIES OF CURED MATERIAL

Shear Strength, ASTM D 1002, psi	2,000
Tensile Strength, ASTM D 882, psi	4,000

Solvent Resistance

Petroleum Solvents	Fair
Other Organic Solvents	Not Recommended
Petroleum Based Oils	Good
Synthetic Oils	Fair
Acids (Strong)	Not Recommended
Acids (Weak)	Fair
Bases (Strong)	Not Recommended
Bases (Weak)	Good
Water (Immersion)	Fair
High Humidity	Good

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).

Storage

Product shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8°C to 28°C (46°F to 82°F) unless otherwise labeled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused product, do not return any material to its original container. For further specific shelf life information, contact your local Technical Service Center.

Data Ranges

The data contained herein may be reported as a typical value and/or range. Values are based on actual test data and are verified on a periodic basis.

Note

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Loctite Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale of use of Loctite Corporation's products. Loctite Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Loctite Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

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 PLEASE CONTACT LOCTITE CORPORATION QUALITY DEPARTMENT FOR ASSISTANCE AND RECOMMENDATIONS ON SPECIFICATIONS FOR THIS PRODUCT.
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