



# TECHNICAL DATA SHEET

## ALL PURPOSE EPOXY

### PRODUCT DESCRIPTION

**Pioneer All Purpose Epoxy** is a 100% solids thermosetting plastic that forms strong bonds on a wide variety of rigid materials; e.g. glass, metals, ceramics, concrete, wood and some plastics (except Polyethylene, Soft PVC and Teflon). Pioneer All Purpose Adhesive is resistant to water, to many organic solvents, diluted acids, alkalis and other chemicals.

**PRODUCT FEATURES** – Serves as a multi-purpose adhesive:

- Installing ceramics or glass tiles to wooden or concrete surfaces.
- Adhesive for metal nameplates in automotive and appliances industry.
- Repairing or joining marble blocks to itself, wood or concrete.
- Replacing rivets and screws on metal and wood fabrications.
- Bonding decorative and metal hardware to wood, metal and/or concrete.
- Repairing broken or worn-out furniture, toys, sporting goods, china wares, metal or concrete tanks, etc.

### TECHNICAL DATA

Shelf Life @24°C	12 months
Color	
A	Pink
B	Beige
Consistency	Soft Paste
Solids Content	100%
Shore D Hardness (24 hrs)	80 minum
Mixing Ratio	1:1 by volume
Pot Life @26°C	1 – 2 hours
Cure Time, Initial Strength	6 – 8 hours
Tensile Strength	2,500 psi
Shear Strength	2,000 psi
Compressive Strength	8,000 psi
Shrinkage	nil

### INSTRUCTION FOR USE

**Surface Preparation:** Surface contaminants such as dirt, grease, oil or wax must be removed from areas to be joined clean surfaces by sanding, sandblasting or brushing for stronger bonds. Surfaces should be clean and ready for application before the adhesive is mixed.

**Mixing:** Mix equal parts by volume of Part A and Part B, blend thoroughly until color streaks disappear and a uniform color is obtained. To avoid loss of application time and wastage, mixing would be accomplished within 5 minutes and prepare a mixture quantity just enough to be consumed within the pot life period.

**Curing:** Non-uniform mixture of the epoxy will develop poor glue joints. The joint should be kept under a slight or contact pressure for at least 8 hours. After releasing the pressure, the bonded part will be strong enough to handle. Full strength develops in 96 hours. Application of heat about 150-194°F for a few hours after it has gelled will also develop full strength of the joint.

**Note:** Do not leave the containers open. Pot life of the catalyzed resin is about 40 minutes for a quart mixture.

### CLEAN-UP

To prevent rashes which occasionally occur on sensitive skin, rubber gloves should be worn when handling. Use acetone or nail polish remover to remove Part A from fingers. To remove Part B and uncured mixture, wash well with soap and water. Dried adhesive is best removed with a scraper or by sanding.

### STORAGE

Store in a cool dry and well-ventilated area and away from direct sunlight. Keep containers securely sealed. Store away from foodstuffs and incompatible materials.

### HEALTH AND SAFETY

Frequent contact may cause irritation to sensitive skin. If in contact, wipe hands with cloth and wash well with soap and water. Harmful or fatal if swallowed. Do not induce vomiting. Consult a physician. KEEP AWAY FROM REACH OF CHILDREN.