

EP 100 Epoxy Technical Data Sheet (TDS)

Description of Infinity Bond EP 100 Epoxy

Infinity Bond EP 100 Epoxy is a fast setting, 1:1 two part adhesive. This clear, general purpose epoxy adhesive is great for bonding, sealing and repairing small parts. Infinity Bond EP 100 is easily dispensed and applied using a standard cartridge gun and static mixer nozzle.

Features of Infinity Bond EP 100 Epoxy

- Easy mix Ratio
- Excellent chemical resistance
- Cures without shrinking
- Good impact resistance
- Produces strong, rigid bond on metal, ceramics, wood, concrete, glass.
- Casting can survive harsh chemical exposure

Properties of Infinity Bond EP 100 Epoxy

Properties of Uncured Material (resin)

Chemical Type Epoxy
Appearance Clear Liquid
Specific Gravity 1.16
Toxicity Low
Solids 100%
Viscosity @ 25°C, cP 12,000
Flash Point (TCC), °C(°F) >93(>200)

Properties of Uncured Material (hardener)

Chemical Type: Mercaptan/Amine
Appearance: Light Amber Liquid
Specific Gravity: 1.15
Toxicity: Low
Solids: 100%
Viscosity @ 25°C, cP: 14,000
Flash Point (TCC), °C(°F): >93(>200)

EP 100 Epoxy Bonds To:

- Metal
- Ceramics
- Wood
- Concrete
- Glass
- Disimilar Substrates



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Properties of Cured Material

Vo. Mix Ratio, Resin: Hardener: 1 to 1
Wt. Mix Ratio, Resin: Hardener: 100:98
Gel Time, 100g (25°C): 5 mins
Fixture Time (25°C): 15 min.
Functional Cure (25°C): 4 hrs.
Full cure (25 °C): 8 hrs
Hardness @ 25°C, Shore D: 85

Performance of EP 100 Epoxy

(Substrates cured or 5 days @ 22°C)
T-Peel: 2-3 pli
Impact Resistance: 7 ft.-lb
Adhesive Lap Shear: 3,900 psi
Tensile Elongation: 1%
% Solids by Volume: 100%

Storage

Product should be stored in cool, dry conditions. Infinity Bond EP 100 when un-mixed has a shelf life of 12 months when stored at 25°C. Storage in cool, clean areas is recommended. Usable shelf life may vary depending on method of applications and storage conditions.

Note

The data 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 recommended that the product be tested in the application for which it is to be used.