



# CHEMZEST ENTERPRISES

#269, First Floor, Paper Mills Road, Perambur, Chennai-600011

Email: [chemzest@gmail.com](mailto:chemzest@gmail.com), [navaneethan@chemzest.com](mailto:navaneethan@chemzest.com)

Phone: 044-42719674, 9486604321

Web : [www.chemzest.com](http://www.chemzest.com) / [www.indiamart.com/chemzestenterprises/](http://www.indiamart.com/chemzestenterprises/)



## TECHNICAL SPECIFICATION

### HIGH GLOSS & TRANSPARENT

#### EPOXY RESIN (HGTE-1)

It is two-part epoxy system with High Glossy , Transparent, low viscosity and UV stable liquid epoxy resin for casting, coatings, and adhesive applications. It is a range of high-performance user-friendly epoxy resins.

#### PROPERTIES:

S.NO	DESCRIPTION	PARAMETER	
		RESIN	HARDENER
1	Physical State	Low Viscous Liquid	Low Viscous Liquid
2	Colour	Clear	Clear
3	Viscosity (mPas 25 °C)	1160	479
4	Mixing Ratio	100	60
5	Gel Time @ 25 °C (Min)	5-10 min	
6	Set Time (Min)	15-20 Min	
7	Drying Time (Min)	30-40 Min	

#### FEATURES & BENEFITS:

- 100% Clear & Transparent.
- High Gloss Finishing Green
- Non Yellowing
- Can be Pigmented using suitable pigments
- Very less shrinkage
- Industry leading UV stability
- Excellent moisture protection barrier, stable in acidic pH solutions
- Excellent flow properties (low viscosity) with efficient substrate wetting
- Unique mechanical properties

#### APPLICATIONS:

- ✓ Sculpture & Art Casting
- ✓ Coatings & sealants
- ✓ Adhesives
- ✓ Home Projects & Hobbies



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- ✓ Encapsulation & Display
- ✓ Model Making
- ✓ Open & closed molds
- ✓ Industrial
- ✓ Lamination
- ✓ Cast resin

## EPOXY RESIN USERS INSTRUCTION

### STORAGE & PRE –MIXING:

The two components ( Resin & hardener ) should be stored in separate at all times prior to use.

Store in cool , Dry & Away from Sun Light.

Warm Temperature should be avoided in storage area , Warm temperature reduce the shelf life.

The handling equipment & the storage area should be free from chemical residue , Foreign matters.

### TECHNICAL GUIDELINES FOR USING:

- ❖ Measure the Part A ( Resin ) and the Part B ( Hardener ) in two separate containers.
- ❖ Transfer Part A into the suitable Glass Beaker
- ❖ Start gentle stirring
- ❖ After stirring the part A, transfer Part B to it.
- ❖ Continue the gentle stirring & Reaction to progress.
- ❖ Take care not to get air trapped within mixture
- ❖ The Mixed epoxy resin should be applied or poured within 5-10 min Time.
- ❖ For design applications, Degassing may be required to remove the Air bubbles from the texture.
- ❖ Upon curing remove the material from moulds.

### SHELF LIFE:

Twelve (12) months from date of shipment when stored at 25°C in the original sealed packages.

### FIRST AID:

Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.

Skin Contact: In case of skin contact, wash thoroughly with soap and water; remove contaminated clothing and launder before reuse; seek medical attention if rash develops.

Ingestion: Do not induce vomiting unless instructed by a physician. Contact physician immediately.

**After first aid, get appropriate in-plant, paramedic, or community medical support.**