

HI-POLY 912A/B Clear Flexible Epoxy

Product Information Sheet

For reference only, not for specification use

DESCRIPTION:

A two-part clear flexible epoxy for decorative coating on rigid or flexible substrate.

USES:

Designed for decorative coating on flexible substrate. It also serves as adhesive to bond metal, plastics, ceramics and glasses.

ADVANTAGES:

Its flexibility greatly enhances adhesion to flexible substrate such as soft PVC.

PACKAGING:

The HI-POLY 912A/B clear flexible epoxy is packaged in kits as pre-proportioned batches for error-free job site mixing and application.

SURFACE PREPARATION:

In general, the surface to be resurfaced or bonded must be clean, sound, dry and above 10°C to assure an optimum bonding. All surface contaminants must first be thoroughly removed by chemical and/or mechanical means.

GENERAL PRODUCT DATA:

Mixing ratio (by weight.): A : B = 100 : 120

	Part A	Part B	Test Method
Color:	Clear	Clear/Amber	Visual
Solid Content (%)	100	100	ASTM D 115
Flash Point (°C)	>100	>100	ASTM D 3278
Specific Gravity @25°C	1.14	0.95	ASTM D 792
Viscosity @25°C, Brookfield RVT Spindle 3, Speed 10 cps	890	1,273	ASTM D 2393
Shelf Life @25°C (months) -min. from date of shipment	12	12	
Gel Time @25°C, minutes		200	ASTM D 2471

TYPICAL CURED PHYSICAL PROPERTIES:

	Properties	Test Method
Color	Clear	Visual
Specific Gravity	1.05	ASTM D 792
Hardness, Shore A	75	ASTM D 2240

* All measurements taken @25°C unless otherwise noted.

For Industrial Use Only

KEEP OUT OF THE REACH OF CHILDREN.

MIXING:

Before proceeding with the mixing and application of HI-POLY 912A/B, the surface should be checked to make sure it is properly prepared and the temperature of the surface is above 10°C.

- Carefully empty the contents of the Part 'B' Hardener entirely into the can of Part "A" Resin.
- Stir with an electric drill with a paint mixing paddle for small batch units, or a Jiffy Mixer for large batch units, until completely blended. This will take about 60 seconds. Be careful to mix the contents completely.
- The mixed components (A & B) must be used within the pot life of the material. Pot life will be shorter for large volume of mixed material. Mixed only enough material to be used within the pot life.

APPLICATION:

- By dispenser, dispensing system
- Weight accurately; any variation in mix ratio will result in degraded properties
- Use only in ventilated area
- Use fume mask and gloves
- Avoid skin contact (Part B is CORROSIVE!)
- Part B is heat & moisture sensitive. Leaving the can open during long application will lead to yellowing of the coating and decrease in shelf life.

Caution: Avoid large mass., severe exotherm may occur!!

CURE TIMES:

Full cure: 4-6 hours @ 60°C

CLEAN UP:

Tools should be cleaned immediately after use with soap and water. Solvents such as Xylol or paint thinner can also be used. But care should be taken before using any flammable and hazardous solvents.

DISPOSAL:

Dispose in accordance with local regulations. Use licensed hazardous waste company. Empty containers may contain product residue, including flammable or explosive vapor. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been properly disposed of.

Storage:

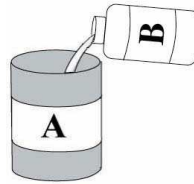
Part B is heat & moisture sensitive, store in a cool, dry place.

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Mixing & Storage of Epoxy

Mix the materials according to the mixing ratio (by weight)

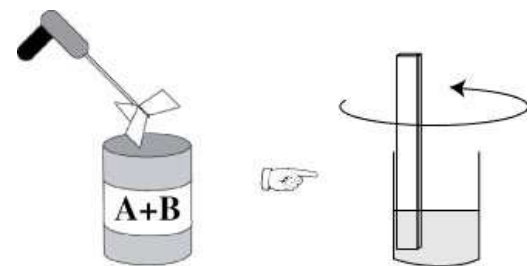
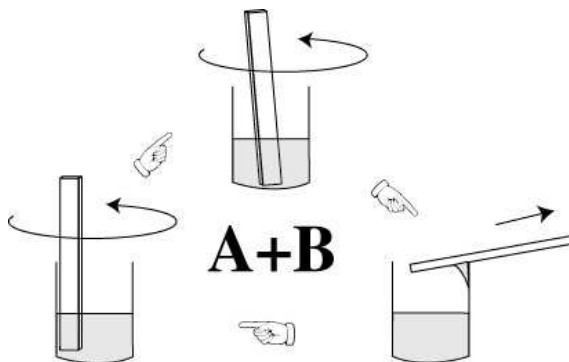
After mixing, curing process will be started.
Calculate the ideal mixing amount according to the designated pot life. ^{P.S.2.}



Empty Part B entirely into the can of Part A

Manual Mixing

Electrical Mixing



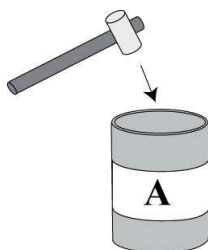
- * Perpendicularly stir with a paint paddle
- * Mix the material thoroughly, including the sediment and material sticking on inner of the can. Repeat thrice
- * Mixing for 2-3 minutes until completely blended

- * Stir with a Jiffy Mixer
- * Scrape the material sticking on the can's inner into the mixed component
- Repeat mixing

- P.S.:**
1. Avoiding produce bubbles during mixing. Bubbles can be reduced by vacuumizing.
 2. Pls. refer to the relevant technical data sheet for particular product's pot life.

Storage

- * Unmixed materials should be gastightly stored



Safety

- * Use only in ventilated area
- * Use fume mask and gloves
- * Wear goggles
- * Use within the pot life or the mixed component will produce severe exotherm

