

RESIDENTIAL
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SHIMICOAT
SURFACE SOLUTIONS



Catalyst

Epoxy Hardener-Part B

Coverage

Using neat for Fast Cure Floor:

1Lt is added to 6Lt of Premium Tinted Epoxy to cover over 30sqm

Using neat for Normal Cure Floor:

1Lt is added to 3Lt of Premium Tinted Epoxy to cover over 15sqm

1Lt is added to 4Lt of Clear Epoxy to cover over 15sqm

Applications

Roller, Brush or Squeegee.

Dry Time at 25°C

Parameters	Measures
Pot Life	15 minutes at 25°C
Tack Free	Half hours
Thin Film Set	1 Hours (Min, depending on temperature and humidity)
Dry Cured	2-4 hours – Foot Traffic (depending on temperature and humidity)
Fully Cured	7 days (Vehicle Traffic)
Re-Coat	4 Hours Intervals

Clean Up

Thinner & Diluent (Blend of Solvents)

Preparations

Clean and dry surface. Ensure surface to be coated is free of all dirt, grease, oil, paint, curing agents and other contaminants. Removal of Oil Contamination by degreaser and alkaline cleaning pressure wash
Acid-wash to enhanced surface porosity and etch the surface. Ensure moisture free surface. Allow to completely dry, run Dry Test. Place a piece of plastic over a small area, tape the edges and leave for 1 hour. Remove plastic, if there is no moisture on either surface, concrete is sufficiently dry. Ideally, always consider surface grinding and removal of loose materials. Grinding is always advisable prior to application of all Shimicoat Epoxy products, to maximize adhesion. For further information, please refer to SHIMICOAT Instruction for "Surface Preparations".

 **MATERIALS**  **CHEMICALS**  **RESINS**  **EQUIPMENT**

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Direction

Catalyst Epoxy Hardener provides installers with a great flexibility of deciding on their best curing time that's most suitable for their project. Feel free to add any dosage according to below table and graph, to obtain your ideal curing time:

Cure time 25°C	Catalyst Epoxy Hardener - 6A:1B by Vol	Premium Tinted Epoxy Part B (105B) - 3A:1B by Vol
8 Hours	0%	100%
4 Hours	50%	50%
2 Hours	100%	0%

When using with Premium Tinted Epoxy:

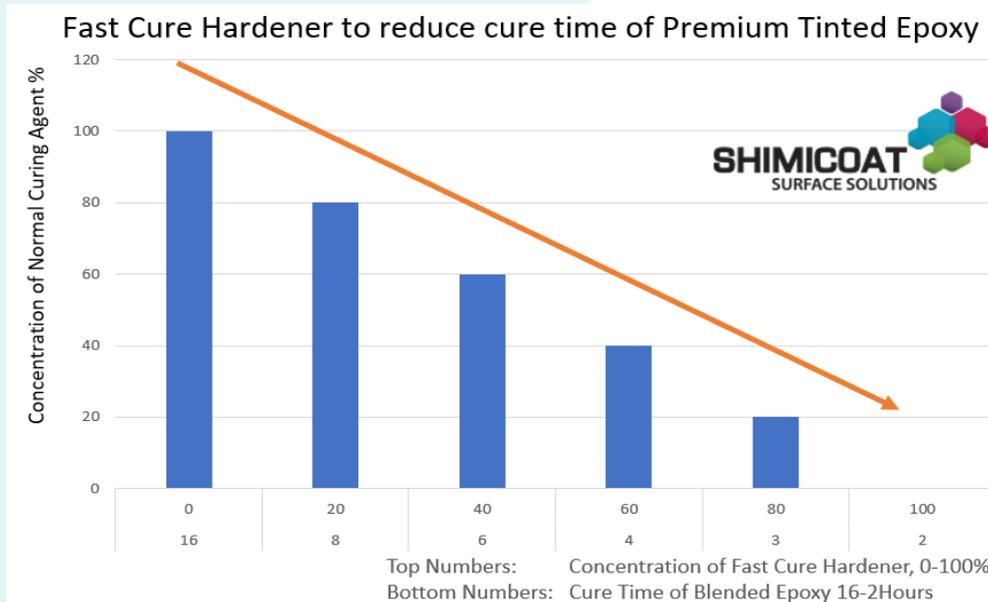
Cure time 25°C	Catalyst Epoxy Hardener - 6A:1B by Vol	Premium Tinted Epoxy Part B (105B) - 3A:1B by Vol
8 Hours	0%	100%
4 Hours / Total Vol = 7 + 4 = 11Lt	50% = 1Lt Catalyst Epoxy Hardener + 6Lt of Premium Tinted Epoxy Part A	50% = 1Lt Catalyst Epoxy Hardener + 3Lt of Premium Tinted Epoxy Part A
2 Hours	100%	0%

Important NOTES:

- Add the correct quantity of Epoxy Resin (Part A) into each hardener respectfully, 6A:1B into Catalyst Epoxy Hardener, and 3A:1B into Tinted Epoxy Hardener (105B).
- You can use Catalyst Epoxy Hardener with clear epoxy; however, we do not recommend due to yellowing. If you wish to use Catalyst Epoxy Hardener with clear epoxy; add the correct quantity of resin (Part A) respectfully.
- Equivalent Stoichiometric ratio of **Premium Tinted Epoxy Part B/Curing Agent** to **Catalyst Epoxy Hardener** is 2:1. Meaning, to replace 1Lt of normal curing agent (e.g. PT105B) you need to add 0.5Lt of Catalyst Epoxy Hardener.

2 X Normal Curing Agent (PT105B) = 1 X Catalyst Hardener

Products	Mix Ratio
Premium Tinted Epoxy PT105K (Normal Hardener/Normal Curing Agent)	3A:1B
Catalyst Tinted Epoxy FT110 (Catalyst Epoxy Hardener/Fast Curing Agent)	6A:1B



Catalyst Epoxy Hardener can be mixed at above various ratios with Part B of Premium Tinted Epoxy (Premium Curing Agent/Hardener) to be applied in many floors:

- Commercial Floors (Rapid back to service)
- Mechanical Workshops
- Factories
- Warehouses
- Food processing plants
- Chemical/pharmaceutical industry
- Power stations
- Plastics industry
- Laboratories
- Wash rooms
- Cool rooms and freezer rooms
- Exhibition halls and showrooms
- Demonstration floors and training facilities
- Loading bays and ramps
- All floors "Epoxy mortars and crack repair"

All Epoxy products yellow overtime, especially under direct sunshine. Catalyst Epoxy Hardener increases the yellowing effect of the finished surface when compared to Premium Curing Agent. Ensure you use "UVthane", UV Resistant Polyurethane topcoat to sunshield your epoxy surface.

Mixing:

Mix thoroughly for a minimum 3 minutes manual or with mechanical mixer at low speed (750rpm Max). If mixing smaller portions mix at a ratio of 6A:1B by volume. For example, to prepare 3.5Lt mix, add 500mL of Part B into 3Lt of Part A.

- Ensure surface to be coated is dry, moisture can cause blooming and delamination.
- Pot life is very short and approximately 15 minutes, work within 15min to ensure easy flow application.
- SHIMI COLOURS, SHIMI METALLIC or SHIMI GLITTERS should be first added to Part A (Resin). Mix slowly using drill mixer on low speed. Mix for a few minutes to ensure completely homogenized without lump. Pour the bend into your tray and apply directly on the surface using the roller.
- Use steady long strokes and avoid overworking the roller or pushing your roller too quickly as this may trap air bubbles in the coating.
- Do not apply if the rain is expected within 24 hours of application.
- New concrete should be allowed to cure fully (at least 28days) before application.
- Keep the pail sealed when not in use. Avoid application on hot surfaces.

Drying Times

Catalyst Tinted Epoxy FC110 cures in 3-4 hours at 25°C. High temperatures and windy conditions may speed the curing time.

Keep foot traffic off the final coat for at least 16 hours and vehicles for at least 7 days. Full hardness is achieved after 7 days.

Temp °C	Pot Life (min)	Surface Dry (Hours)	Initial Cure (Hours)	Recoat Time (Hours)	Fully Cured (Days)
10°C	15	1.5	4	4	7 Days
20°C	13	1.0	3.5	4	7 Days
30°C	12	45	3	4	7 Days

WARNING

- Heavy vehicles with hot tires may cause damage on driveway. Avoid driving over the new coated floors till completely cured (7 Days). For parking the car, place a mat under each tire during the first few weeks to ensure longevity of your new floor.
- Do not apply Catalyst Tinted Epoxy FC110, if the concrete has a patchy appearance as moisture may be present. Dry Test prior to application.
- Direct sunlight and UV radiation may result in chalking, colour variations and yellowing effect over time. UV resistance topcoat shall be used.

Storage

The products shall be stored out of direct sunlight and heat at all times. The shelf life of the product is 24 months, mix uniformly for 3 minutes prior to use.

DISCLAIMER

Material Safety Data Sheet, Technical and Environmental Data Sheet can be provided upon request.

The information provided in this document is guidance only and considering the uses of this product are beyond the seller's control, the product is sold without guarantees or warranties. Warranties and guarantees shall be governed by SHIMICOAT Standard Terms of Sale. The purchaser shall make its own tests to determine the suitability for their specific application, and Shimicoat Pty Ltd is taking no responsibility for misuse of the product. The purchaser assumes all risk of use and handling of this product. This product will be happily replaced or credited back if defective. Beyond this, Shimicoat Pty Ltd is not liable for any damages caused by this product or its use.

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