

Solvent Free Floor Epoxy

Description

Happilac Solvent Free Epoxy is a two component system which makes much durable and high performance epoxy floor. It is designed to combat erosion, corrosion, chemical attacks and other detrimental outcomes. It forms a hard and tough film, having good wetting properties. It offers high mechanical strength and cures to semi-glossy smooth surface. It is a self smoothing, easy to apply product, leaving a seamless surface. It can be applied directly in two coats or on approved primers depending on the conditions of the concrete substrate.

Recommended For

Happilac Solvent Free Floor Epoxy is suitable for industrial floors. Also as a self-primed, surface tolerant paint system or as an intermediate or finished coat in heavy duty paint system. It can be used where high film build is required. Highly recommended for interior concrete flooring such as workshops, garages, warehouses and industrial floors. Anti slip aggregates to be applied when heavy tracks are expected.

Features

- Self Leveling
- Fast Walk-dry time
- Excellent wear resistance
- Excellent chemical resistance
- Excellent adhesive characteristics
- Excellent chemical resistance
- Easy cleaning
- Outstanding flow properties
- Available in semi gloss and matt finish

Limitations

- It is not recommended for surfaces known to suffer from rising damp.
- Pot life is small.

Product Information

| General Properties | | Coating Properties | |
|-----------------------------|-------------------------------|---|-------------|
| Specific Gravity | | <u>Strength</u> | Good |
| Component A | 1.5±0.05 | <u>Water resistance</u> | Excellent |
| Component B | 1.0±0.05 | <u>Abrasion resistance</u> | Good |
| Mixing ratio | 3:1 (Vol/Vol) | <u>Corrosion resistance</u> | very good |
| Pot Life | Approx. 30-45 Minutes @ 30°C | <u>Shelf life</u> | 1 year |
| Thinner | N/A | <u>Temperature resistance</u> | up to 100°C |
| Flash Point | 70°C | <u>Chemical resistance</u> | Good |
| Covering | 5-6m ² /liter/Coat | Surface staining may result from exposure to some aggressive chemicals. Good housekeeping practice requires that spills be quickly removed and washed away. | |
| Recommended DFT | 150-200 micron/Coat | | |
| Drying/Curing @ 30°C | | | |
| Tack Free | 4-6 hours | | |
| Recoating time | 20-24 hours | | |
| Cure time | 7 days | | |

Surface Preparation

Concrete:

Remove any old, loose material and laitance by wire brushing. Acid etching or sweep blasting technique can also be used. New concrete must be at least 28 days old. Wipe any old or grease by using suitable surface degreaser. Hose off with high pressure water. Captive blast clean to expose firmly held aggregate to industrially accepted standards. Allow to dry before application. Blowholes and other defects should be filled with suitable filler. Wash the surface by washing with fresh water and allow drying.

Application

Mix Component A & Component B in the recommended ratio. Thorough care should be taken that excess air bubbles should not form. Give an indication period of 10-15 minutes prior to application. A normal brush or a roller may be used for difficult shapes or touch ups, however additional coats may be required to achieve the recommended film thickness. The method of application is recommended for stripe coating welds, edges, rivets etc.

To avoid air bubbles, it is very important to pierce the coating with a spiked roller when desired film thickness is achieved.

Laitance deposits are best removed by diamond disc grinder or by captive blasting followed by vacuum cleaning to remove dust particles. For old concrete, Happilac technical team should visit the site and appropriate surface preparation methodology should be recommended and that is to be followed.

Allow the coating to cure for 7 days prior to subjecting chemical exposure.

Recommended Sequence and No. of Coats

| | |
|-----------------|---|
| Concrete Floors | 1 Coat of Happilac Floor Epoxy Primer 1 Coats of Happilac Solvent Free Floor Epoxy |
|-----------------|---|

Packing and Storage

Happilac Solvent Free Floor Epoxy is available in 4.00 liters gallon and 20 liters packing containing base and hardener in correct proportions.

Store in cool and dry place between 5-30° C, away from source of heat and ignition. Protect from frosting.

Health and Safety Notes

- When applying paint, wear appropriate eye protection.
- In case of eye contact with product, rinse with plenty of water for at least 10 minutes.
- Don't breathe spray mist or dust.
- Ensure proper ventilation when applying paint.
- If swallowed, it may cause serious damage.
- When empty, don't use its container for edible storage.
- Place out of reach of the children.
- Pregnant women are advised to avoid breathing of paint mist or spray.
- In case of any emergency, undergo medical supervision as soon as possible.

WARNING: Scraping/sanding off previously painted surfaces may release lead dust or fumes. Lead is highly toxic; take protective measures thoroughly when rubbing off the old surfaces.