



Lacquer Epoxy

LAEP010

DESCRIPTION

Two - component , air-drying , non porous , high solid , polyamid cured epoxy lacquer , especially formulated to be used on surfaces destined for an immersion into water end or on surfaces supporting a high mechanical effect .

PRINCIPLE CHARACTERISTICS

- General purpose epoxy primer coat for steel or concrete structures exposed to marine conditions and high pressures .
- Durable smooth and elegant finishing , up to 2 -4 years minimum , according to the environment conditions (long immersion into water and salted water , very high pressure application , ...)
- Good impact and abrasion resistance.
- Remarkable coverage and chemical resistance .
- Great waterproof & rustproof properties.
- Excellent heat , salt , acid , corrosion , scratch and scuff resistance.
- Good flexibility .
- Great prevention against surface stripes and leaks .
- Very high non-slipping properties & excellent floor constant beating , high traffic and heavy equipment and vehicles weight withstanding .
- Compatible with various aged coatings.
- Applicable on fiberglass , steel , blasted steel , aluminium , bitumen , concrete, ...
- Very easy to be cleaned – up .
- Generation of relative medium toxic vapors , evaporated by some solvents used during the production process .
- Heat generation during the mixture of the epoxy resin and its catalyst .
- Suitable for wastewater .

BASIC DATA AT 25°C

Mass density

0.99g/cm³

Recommended dry film

60-70 micron for brush/roller

Theoretical spreading rate

8-10 m²/L

Touch dry after

40 min at 25°C

Overcoating interval

24 hours at 25 °C

Flash point

Base 30 °C ,hardener 25 °C

Viscosity

10 poises

Solid Content

63 - 65%

VOC Content

20 – 35 %

Hard dry

2 days

Pot Life

3 hours minimum

Storage temperature

10 - 35° C

Shelf life

12 months

Colors and Gloss

Clear&Glossy

Full cure

7 days

SURFACE PREPARATION AND APPLICATION

- COV epoxy lacquer , can be applied by a brush or an airless spray-gun (which is not recommended for safety issues) ; although while spraying epoxy , it's recommended to apply the first coat by a brush , this fills the grain better because epoxy doesn't usually wet out well , which can lead , during a non appropriate application , to holes or fish eyes into the cured surface .
- It's recommended to mix just the needed quantity of COV paint epoxy with 25% of its hardener before the application and to close hermetically the containers of the remaining two components , to avoid their solidification .
- A dilution with COV thinner epoxy is required , after mixing the 2 components .
- To apply the epoxy on a new surface you have to clean it with a suitable alkaline detergent or degreasing solution , to remove any oil or grease spot that could interfere with proper adhesion .

1- Concrete or bitumen surface :

- As a second step , you have to etch the concrete with muriatic (hydrochloric) acid then rinse it immediately , the surface must seem as a 150-180 grit sandpaper , and must directly absorb few drops of water , otherwise the etching procedure should be repeated .
- When the surface is dry , rub your finger against it and wait for a white film of dust or powder, if it appears rinse again .
- After a fully dryness the epoxy can be applied : begin with one or two cross coats (if the surface needs) of primer epoxy , allow to dry for at least 6-8 hours , follow-up by one cross coat of paint epoxy , allow to dry for at least 6-8 hours , then finish with one cross coat of lacquer epoxy , let dry for two days for light foot traffic , five days for heavy foot traffic and ten days for vehicular traffic.
- To apply the epoxy on a previously coated floor , clean it , let dry well , remove any peeling paint or stain , and if it's sealed , grind it to remove the sealer , then scuff it well before the application to ensure proper adhesion .
- The application of COV paint epoxy should be at least 24 hours before rain is forecasted , for a temperature of 15 to 40 °C , and a humidity less than 85% .

2- Steel , blasted – steel , aluminium surface :

- To obtain great results , and after removing all the grease spot and dirt , a sharp and angular abrasive should be used to blast-clean the metal surface .
- After preparing the surface , follow the same application steps as for the floor application .
- The application of COV paint epoxy should be at least 7 days before the surface immersion into salted water and at least 24 hours before rain is forecasted , for a temperature of 15 to 40 °C , and a humidity less than 85% .

DIRECTION FOR USE

Instruction

- Mixing ratio by volume : base to hardener 4:1.
- The temperature of mixed base and hardener should preferably be above 15°C , otherwise extra thinner may be required to obtain application viscosity.
- Too much solvent result in reducing sag resistance and slower cure .
- Thinner should be added after mixing the 2 components .
- Substrate temperature should be at least 10 °C .

Dilution and cleaning

BRUSH/ROLLER

Recommended thinner :thinner epoxy

Volume of thinner :10%

AIRLESS SPRAY

Recommended thinner : thinner epoxy

Volume of thinner :15-20% depending on required thickness and application conditions

CLEANING

Clean hands and tools immediately with thinner epoxy.

SAFETY AND HEALTH

In case of eye contact treat any foreign body by flushing with large amounts of water . For skin contact repeated exposure may cause skin dryness or cracking since , it contains cobalt, ketoxime may cause allergic reaction so for safety when applying it is advisable to wear eye protection glasses hand gloves and face mask.

Keep out of the reach of children , do not use or store by hanging on a hook.

Lead to toxic exposure that cause serious damage for brain especialy for children and pregnant women.

SHIPPING

Packing

US gallon (+ 1 L catalyst).

20L pail (+ 1 gallon /5 L catalyst).

Storage Condition

Store away from extreme temperature and fire source . containers should be kept closed during storage.

Limitations

This is a solvent base paint , and care should be taken to avoid inhalation of spray mist or vapor as well as contact between the wet paint and exposed skin or eyes.

TDS-COV-C5-13



