



DESCRIPTION

ADHL-LABHEAT is a two- component, low-medium viscosity clear epoxy that provides a heat resistant, tough and durable finish. ADHL-LABHEAT is versatile, and can be applied both horizontally and vertically, depending on customer requirements. The product is equipped to be used both indoors and outdoors and has a wide range of suitable installation environments.

WHERE TO USE

ADHL-LABHEAT is recommended for use in areas with light to medium traffic, particularly decorative applications and in applications where the epoxy will be coated overtop of. ADHL-LABHEAT is ideal for swimming pools, pool decks, garage floors and other scenarios where high heat tolerant epoxy is required.

BENEFITS

- High heat tolerance - heat tolerance of up to 210 Degrees Fahrenheit
- Easy to apply, clean and maintain
- Exceptionally high surface hardness
- Excellent bond to concrete
- Tough, highly durable
- Outstanding water and water spotting resistance

SURFACE PREPARATION

ADHL-LABHEAT should be applied over clean, sound, dust-free surfaces. For best results, surface should be prepared as follows.

Existing Epoxy Floor:

Make sure that the floor is clean and free from oil or grease. The floor must be sanded with 80-100 grits to provide profile for adhesion. Ensure that the existing floor is sound and adhered well to the concrete. Epoxy coating would not adhere to alkyd or oil based coated floors.

Concrete (New):

Shotblast or equivalent to remove surface laitance, curing compounds or form oils. Concrete should be minimum of 28 days old or have 3% or less moisture content. Moisture content can be determined using the test method ASTM D4263

Concrete (Old):

Remove oil, grease, dirt and any unsound concrete using a combination of commercial de-greasers, alkaline wash, shotblasting or diamond grinding. A combination of acid-etching and power wash can also be used. Cracks and surface defects should be repaired prior to the application of the coating.

Steel:

Remove greases, oils and contaminants from surfaces and sandblast to white metals. Prime using ADHL-PRIMER

CRACK REPAIR

Because of the nature of the product, all floor and wall imperfections will show through the final coating, which makes it critical to have an almost perfect floor prior to the application of the clear topcoat.

AREA PREPARATION

For optimal performance, both the coating and substrate should be maintained to 18/30 C for 24 hours prior to beginning work. The same temperature range should be maintained during mixing, application and cure.

Application in direct sunlight and rising temperatures may cause blistering and off gassing of the product.

OFF-GASSING

The off-gassing is not a by-product of the epoxy coating, but of the displacement of air in the concrete. It depends on the density/PSI (compressive strength of the concrete); the lower the psi and/or water added to the concrete during pouring, the more off-gassing in the concrete. If the concrete is spongy or very porous, it is recommended to apply an epoxy primer first (refer to product data sheets or call Adhesives Lab for recommendations). Alternatively add 2% solvent to ADHL-LABHEAT to facilitate the penetration, the priming coat must be very thin and be pulled tight with a flat squeegee. If you need to have a thicker film to smooth the concrete, it is recommended, after the first pass, to apply wet on wet within 30 minutes @ 8 mils film thickness.

PRIMING

ADHL-LABHEAT is a self-priming product that requires no primer when the concrete substrate is dry.

APPLICATION

The mixing equipment used to mix the coating must be clean and free of any contaminants that may be present in the equipment from previously used products. Two coats are recommended (one prime coat and one top coat) The first coat is applied at 4 mils whereas the second coat is applied at 8 mils.

- Pre-mix at low speed component “A” of ADHL-LABHEAT first to ensure uniformity. Pour all of the liquid from Part B into a Part A container
- Pre-mix at low speed component “A” of ADHL-LABHEAT first to ensure uniformity. Pour all of the liquid from Part B into a Part A container.
- Mix thoroughly using a slow speed ½” drill motor with “jiffy” type blade for two minutes (minimum). Scrape sides of the container and continue mixing until the coating is uniform.
- Immediately pour all mixed product onto the edges of the prepared floor for all horizontal work and spread material using a squeegee, followed by a thin nap roller. Care should be taken to not over roll the material as air may become entrapped in the coating.
- For all vertical surfaces, pour material into a roller tray and apply using a thin nap roller on all surface. North, South, East and West to eliminate roller marks and drippage.

- Apply the second coat in the same manner as the first
- Allow to cure thoroughly for 16 hours before exposing to foot or light duty traffic
- If product is being re-coated this can take place once the coating reaches an extremely tacky state
- Keep water and detergent away from the floor until fully cured

LIMITATIONS

- Do not apply ADHL-LABHEAT if the substrate and ambient temperature are below 6 degrees Celsius
- Do not leave mixed material (Part A & B together) in the container for an extended amount of time; it will harden and warm up and smoke
- Do not use over existing floor or walls without testing both the inter-coat adhesion as well as the adhesion of the existing floor to concrete
- Not recommended for areas subjected to steam cleaning, harsh chemicals or heavy impact

COVERAGES

10 mil thickness:

Prime Coat: (4 mils) : 10m²/litre (400 ft²/US. Gallon)

Second Coat: (6 mils): 7.5m²/litre (200 ft²/US Gallon)

PACKAGING

3 US gallon kits

CLEAN UP

Clean up all tools and equipment with xylene prior to the material setting

OTHER INFORMATIONS SHELL LIFE

Two years from the date of manufacture if kept in the original unopened containers under normal heated warehouse conditions

SAFETY PROCEDURES

Consult the Material Safety Data Sheet (MSDS) for specific instructions

WARRANTY

ADHESIVES LAB INC warrants no warranty on these products.

STORAGE

Store in a heated warehouse. Do not freeze.