



ZeraGuard™ HB

Heavy-Duty High-Build Epoxy Floor Coating

DESCRIPTION

ZeraGuard™ HB is a three-component, 100% solids, high build self-leveling epoxy floor coating for heavy duty use in both commercial and industrial applications.

ZeraGuard™ HB consists of ZeraGuard™ HB in combination of special grade aluminum oxide powder to generate highly scratch and abrasion resistance high-build coating. The product is easy to apply and can be applied on concrete surfaces at 15 mils in film thickness by a notched squeegee and roller. It cures to a hard glossy smooth (or non-slip) wearing protective surface with outstanding durability under heavy and harsh abrasive environments.

ZeraGuard™ HB is ideal for repairing, restoring and leveling worn and eroded concrete floors to obtain a smooth, glossy attractive floor or (if required) a non-slip finish.

WHERE TO USE

ZeraGuard™ HB is particularly designed for use in areas subjected to heavy duty forklift or vehicular traffic including: disposal (compactor) rooms, loading areas, heavy traffic manufacturing areas, laboratories, water treatment plants, food processing areas, breweries, sewage plants, jails, stadiums, ramps, workshops, fire stations, aircraft hangers, heavy-duty commercial parking garages, etc.

BENEFITS

- 100% solids, with low odour, zero VOC's
- Applied at 15 mils film thickness in a one coat application
- Two- step application: Primer (**ZeraPrime™ 95DS**) and Topcoat (**ZeraGuard™ HB**)
- Very hard surface; superior scratch resistance
- Outstanding resistance to heavy abrasive traffic
- Attractive glossy floor; smooth or non-slip finishes

Remove oil, grease, dirt and any unsound concrete using a combination of commercial degreasers, alkaline wash, shot blasting or diamond grinding. A

- Resistance to water immersion
- Excellent water spotting resistance
- Resistant to moderate chemicals, food acids, petroleum, oil and heavy industrial cleaners.
- Does not support growth of bacteria or fungus
- Easily maintained and cleaned with detergents and water; can be pressure washed

Handling and Curing Properties @ 23°C (74°F)

Mixing Ratio, by volume A/B	2 to 1
Viscosity (Mixed)/ Part A & B only	800 cps
Solids Content	100 %
Density/ A&B only:	1.2 kg/litre (10 lb./US gal)
Pot Life (working time)	20 minutes
Thin Film Set Time @ 23°C (74°F)	16 hours
Foot Traffic @ 23°C (74°F)	16 hours
Vehicular Traffic @ 23°C (74°F)	24 hours
Full Cure and Maximum Resistance	7 days
Hardness (Shore D)/ with Part C	
24 hours.....	72
7 days	84
Abrasion Resistance	36 mg loss
Taber Abrasion, C-17 Wheel, 1000 cycles	

SURFACE PREPARATION

ZeraPrime™ 95DS should be applied over clean, sound, dust free surfaces. For best results, surface should be prepared as follows:

Concrete (New):

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

Concrete (Old):

combination of acid-etching and power wash can also be used. Cracks and surface defects should be repaired prior to the application of coating.

Steel:

Remove greases, oils and contaminants from surfaces and sandblast to white metals.

AREA PREPARATION

For optimal performance, both the coating and substrate should be maintained at 18° to 30° C (68 to 86°F) 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 surface temperatures may result in blistering of materials due to expansion of entrapped air or moisture in the substrate. Concrete that has been in direct sunlight must be shaded 24 hours prior to application and remain shaded until after the initial set.

APPLICATION:

- Plug the drainage with a cloth and duct tape during the 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.
- Premix component "A" of ZeraGuard Part A first to eliminate the possibility of settlement.
- Pour all Part B into Part A container and mix thoroughly for one minute. Slowly add while mixing one quart of ZeraGuard™ HB Part C and mix well using a slow speed ½ inch drill motor with "jiffy" type blade for another 2 minutes until all powder is well dispersed.
- Keep the mixing blade closer to the bottom at the point to prevent dust clouds. Once all aggregate is mixed, keep moving the mixing blade up and down while scraping the sides to ensure complete mix. Ensure no powder or dry spots are present and the mixture is fully uniform.
- Immediately pour the mixed coating onto the edges of the floor and spread evenly with notched squeegee to a 15 mils film thickness. Back roll with lint free short nap roller to even up the floor uniformly.
- Allow for ZeraGuard™ HB to level to a smoother finish. Use spike roller over the entire wet surface to help eliminate any air bubbles (if needed). Continue in this fashion until completed. **Keep water & detergent away from the floor until fully cured.**

"The recommendations made and the information herein is the result of accurate laboratory and field tests under controlled conditions. We guarantee that the quality and properties of the materials supplied conform to our standards. Zeraus Products Inc. makes no

Caution: Keep airborne dust away from the working area during the application of the floor to prevent dust from settling onto the floor and causing any defects.

Non-Slip Finish:

- If a non-slip surface is required, a dry clean alumina grit (#31 or #20 depending on the level of non-slip needed) should be lightly broadcast on the wet coating and back roll immediately to encapsulate the aggregate onto the coating.
- Allow to cure thoroughly overnight (24 hours @ 23°C (74°F) before exposing to foot or light duty traffic. It requires 72 hours to achieve for full cure.

LIMITATIONS

- Do not apply ZeraGuard™ HB if the substrate and ambient temperatures are below 10°C (50°F)
- do not thin with solvent
- not recommended for areas subjected to steam cleaning, harsh chemicals or heavy impact by heavy metallic objectives
- not recommended for exterior applications
- Due to its self-leveling nature, ZeraDur™ HB is not recommended for a floor that has a sharp slope.
- Do not apply in areas where the humidity is greater than 85%.

COVERAGE

375-400 ft² per unit

PACKAGING

11.34L unit

CLEAN UP

Clean all equipment and installation tools immediately with xylene.

SAFETY PRECAUTION

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

STORAGE

Store in a heated warehouse.

SHELF LIFE

2 years from the date of manufacture if kept in original unopened containers

WARRANTY

warranties, expressed or implied, as uses and applications are beyond our control. Zeraus Products Inc. shall not be liable for any injury, loss, or damage (direct or consequential) arising from use or inability to use the products. Before using, the user is urged to pre-test the

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