

ACS Protecta Epoxy HB-100

DESCRIPTION

ACS Protecta Epoxy HB-100 is a two pack, 100% solids, solvent free, low odour, low VOC epoxy coating system for internal concrete flooring. ACS Protecta Epoxy HB-100 exhibits good moisture, chemical and oil resistance with ability to build virtually any thickness. It will provide a hard-wearing coating for most situations where a durable floor is required. ACS Protecta Epoxy HB-100 can be easily tinted with ACS compatible tints.

USES

ACS Protecta Epoxy HB-100 is suitable for most residential, commercial and industrial applications that require a robust, long lasting epoxy floor.

ADVANTAGES

- Easy-to-use 3:1 mix ratio
- Solvent free formulation
- Low odour and low VOC
- Self-levelling and high build
- High gloss and clarity appearance
- Durable and suitable for high traffic
- Chemical, stain and wear resistant
- No fish-eyeing or delamination with proper application
- Can be tinted to a solid colour

PACKAGING

ACS Protecta Epoxy HB-100 is available in a 10 litre, two-part kit.

Part A: 7.5 litre

Part B: 2.5 litre

COVERAGE

Typical coverage is 4-5 m² per litre per coat. Coverage may vary depending on the surface texture and porosity of the concrete being coated. A minimum of 2 coats should be applied.

TECHNICAL PROPERTIES

Solids	100%
Mix Ratio (v/v)	3:1
Pot Life	30-45 minutes depending on the temperature
Touch Dry @25 °C	4 hours
Over Coating time @25 °C	6-8 hours
Cure time	24 hours
Full cure @25°C	7 Days
Appearance	Transparent
Resistance to chemicals	High
Coverage	1L = 4-5m ²
Shelf Life	24 months, keep in a cool dry area of sunlight

APPLICATION

Preparation

Ensure the floor to be coated is free of all efflorescence, laitance, dirt, grease, oil, paint, curing agents, dust, wax and all other contaminants. If the floor is smooth or if curing agents have been applied, mechanical grinding or abrasive blast cleaning is recommended to ensure proper adhesion. Conduct a water test before applying ACS Protecta Epoxy HB-100 by sprinkling water drops on various parts of the floor and observing how quickly they absorb into the surface. New concrete floors should be at least 28 days old before application of ACS Protecta Epoxy HB-100. Concrete must be free of moisture before application of ACS Protecta Epoxy HB-100 (this can be tested by taping a piece of plastic over a small area and inspecting the inner surface for free moisture - refer to ASTM 4263 Plastic Sheet Test). Alternatively use a moisture meter.

Mixing

Using a mechanical mixer, premix Part A until homogeneous (1-2 minutes) at low speed. If colour is required, slowly add tint pack to Part A whilst mixing with a mechanical mixer, ensuring that the sides of both containers are scraped down so that all the colour is added and there is no residue of clear epoxy on the walls of the pail, mix until homogeneous.

Allow mixed product to stand for 2-3 minutes to release any trapped air bubbles. Add Part B to the Part A/tint mix and mechanically mix for 1-2 minutes or until both parts are well blended together. Allow to stand 2-3 minutes to release any trapped air bubbles before use. Only mix as much as is likely to be used within the pot life of the product – approximately 35-45 minutes.

Do not seal or place a lid on mixed product as the heat of reaction causes pressure build up.

Application Method

Apply ACS Protecta Epoxy HB-100 with a lambswool applicator or mohair roller. If required use a spiked roller to remove any air bubbles. To provide more working time pour all the mixed product onto the floor then spread and roll until the desired film thickness is achieved.

First Coat

Apply ACS Protecta Epoxy HB-100 at a rate of 3-4m² per litre. If a textured or anti-slip surface is required apply ACS Protecta Epoxy HB-100 at a rate suitable to accept broadcasting of an appropriate anti slip medium such as CCS Slip Reduction Granules. Allow to cure sufficiently then remove any unbonded excess anti-slip granules with a broom or vacuum. Ensure that all dust and any other contamination is removed thoroughly before applying the next coat to sandwich the granules between coats.

Second Coat

Apply second coat within recoat window (8-24 hours). After 24 hours the floor may no longer accept a second coat without the possibility of fish-eyeing and subsequent delamination. If applying a second coat outside of the recommended recoat window time sanding of the surface will be required to ensure proper inter-coat adhesion.

Mix per first coat directions and apply ACS Protecta Epoxy HB-100 uniformly at a rate of 5-6m².

Allow 24 hours cure time before subjecting the new floor to pedestrian traffic, 72 hours for vehicular traffic and 5-7 days before subjecting to chemicals or severe abrasion.

CLEAN UP

Use CCS Solvent to wash all tools immediately following application.

OPTIONAL TOPCOATS

- CCS Armourthane
- CCS Armourguard
- CCS Decrathane
- CCS Rapid Floor Polyaspartic
- CCS FlakeKote 100S

These coatings are all high-performance scratch and abrasion resistant coatings with the additional benefits.

They contain UV absorbers which slow down the natural yellowing of epoxy floors which occurs with age and exposure to ultraviolet light, even in interior areas, thus extending service life. Various gloss levels are available from high gloss through to satin/matt.

They are also well suited for lock-in and finish coats in seamless/ flake floor systems.

It should be noted however:

The use of these coatings still does not make the system suitable for exterior exposure as epoxy chalks readily on exterior exposure and protective coatings will eventually flake and may delaminate. For exterior durability, users should consider Polyaspartic Coatings (refer to ACS Technical for product information).

Before applying PU coatings ensure that ACS Protecta Epoxy HB-100 is thoroughly dry (i.e. overnight) before application as they can reactivate the epoxy surface causing migration and yellowing of uncured epoxy hardener.

LIMITATIONS

May discolour and chalk after prolonged exposure to UV sunlight – suitable for INTERIOR USE ONLY. Not recommended for use below 10°C or above 35°C (Minimum cure temperature 10°C).

Ensure surface to be coated is dry – moisture can cause blooming, discolouration and delamination.

Avoid cold and/or damp. Application should be at temperatures a minimum 5°C above the dew point.

STORAGE

Store product between 10°C and 30°C away from direct sunlight. Partly used containers must be sealed tightly when not in use. For further information consult the Safety Data Sheet and read the product label carefully before use.

Safety Data Sheets are available from www.appliedconcretesolutions.com.au or by calling 1800 077 744.

USER RESPONSIBILITY-PRODUCT SELECTION AND COMPATIBILITY

ACS warrant that their manufactured product is free from defects as well as being suitable for the purpose for which it is intended as long as it has been used and applied in accordance with the most current Technical Data Sheet from ACS.

In practice, differences in materials, substrates and actual site conditions require an assessment of product suitability for the intended purpose. The user is responsible for checking the suitability of products for their intended purpose.

Further, combinations of products that form a total system are often required to service particular applications. Due to the multitude of products available to service an application, only products from the ACS system of products must be used in combination with this product to ensure it will be suitable for the purpose for which it is intended.

The product must also not be mixed or used in combination with any other product which is not a product supplied by ACS.

TOLL FREE HELPLINE: 1800 077 744
APPLIEDCONCRETESOLUTIONS.COM.AU

BRISBANE: (07) 3412 8111
SYDNEY: (02) 9677 1056

MELBOURNE: (03) 9311 9225
PERTH: 0423 023 164

For further information consult the Safety Data Sheet and read the product label carefully before use. Safety data Sheets are available by phoning 1800 077 744.



Applied Concrete Solutions.
A division of River Sands Pty Ltd
14-24 Monte-Khoury Dr,
Loganholme QLD 4219, Australia

The information given in this data sheet is based on our current knowledge of the product when property stored, handled and applied. We cannot guarantee that the product will be suitable, effective or safe when used for any purpose other than its stated uses. To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no responsibility for loss or injury caused by improper use, incompetent preparation, inexpert or negligent application, or ordinary wear and tear. Service or advice given by our staff should not amount to responsibility for the project - since the owner or their contract (and not River Sands), is responsible for the procedures relating to the application of the product.