

RonaFloor EWB

water based epoxy floor coating

FEATURES

- ✓ Water based epoxy floor coating
- ✓ Slip resistant when used with A/S Aggregate
- ✓ Colour range
- ✓ Chemical resistant

SPECIFICATION CLAUSES

Water Based Epoxy Floor Coating

The epoxy floor coating shall be RonaFloor EWB by Ronacrete Ltd, telephone +44 (0) 1279 638700. All materials to be applied in accordance with manufacturers instructions.

SUMMARY APPLICATION PROCEDURE

1. prepare surface
2. mix and apply at least two coats of RonaFloor EWB
3. protect
4. traffic

Description

RonaFloor EWB is a 2 part water based epoxy resin floor coating. It has good adhesion to a wide variety of substrates to produce a tough, hard wearing floor finish and is available in an attractive range of colours. RonaFloor EWB Coating does not contain solvents and is therefore more suitable than solvented resins for use in areas where tainting is unacceptable.

Typical Installations

Floors coated with RonaFloor EWB show good abrasion resistance to foot traffic and light wheeled vehicles. RonaFloor EWB Coating is used as a decorative or clear dust proof seal on industrial floors in food preparation areas, warehouses, breweries etc.

Substrates

RonaFloor EWB adheres well to concrete and granolithic surfaces.

Surface Preparation

To achieve maximum adhesion it is essential that RonaFloor EWB is applied to a structurally sound, clean substrate.

Remove all loose material from surface and make good any surface defects by using one of the RonaFloor Repair 1 Hour mortars. The surface should be free from grease, oil, dirt etc and prepared by light vacuum shot blasting to remove laitance. The surface should then be vacuumed to remove all dust and debris. The Relative Humidity at the surface should be below 80% when measured with a hygrometer.

Mixing

Add full contents of hardener container to full contents of resin container and mix with a slow speed drill and spiral mixing paddle until a homogeneous colour is achieved. Typical mixing time is about 3-4 minutes. Pour the mixed material into a roller tray or onto the substrate. To avoid transfer of unmixed material to the floor resin must not be taken directly from the mixing vessel by brush or roller.

Application Technique

Apply by short or medium nap mohair or lambswool (not foam) roller. Push the resin well in to the surface making sure the floor is fully wetted and then pull back lightly by roller to the required thickness. Use coverage rates as a guide to thickness. It is important to apply at the specified coverage rate and thickness; if a coat is applied too thin the coating may not properly cure and will have a shortened life expectancy. If applied too thick it may crack and blister.

For slip resistant properties scatter RonaFloor A/S Aggregate Fine Grade within the first coat of RonaFloor EWB and allow to cure. Remove any excess aggregate by brush or vacuum and apply a further 1 or 2 coats of RonaFloor EWB.

On porous and uneven substrates more than two or three coats of RonaFloor EWB may be required. Special attention should be paid to ensure pooling of

RonaFloor EWB is avoided in depressed areas.

Do not use where air and substrate temperatures are below 10°C.

Limitations

RonaFloor EWB is normally applied at an overall thickness of 100 microns. Its wear capability is good compared to floor paints but it should not be used in areas where high wear is expected; RonaFloor HB100 or HB200 should be considered instead. RonaFloor EWB, in common with all other epoxy resin products, will soften when subjected to temperatures of 65°C and above. Repeated exposure to high temperature will weaken the product and cause it to debond. Slight variations in surface colour may be experienced when floor areas are coated in different temperature and atmospheric conditions, this is typical of water based epoxy coatings.

Coverage

Use coverage rates as a guide to thickness. It is important to apply at the specified coverage rate and thickness; if a coat is applied too thin the coating may not properly cure and will have a shortened life expectancy and poor opacity and appearance. If applied too thick it may crack and blister. The coverage quoted in the Technical Data makes no allowance for substrate texture or porous substrates. On porous substrates, full opacity may require the application of three or more coats. Actual coverage rates will vary from site to site and can only be accurately determined by site trials and after allowing full cure to take place prior to assessment.

Cleaning

Brushes and tools should be cleaned immediately with water.

Colours Available

RonaFloor EWB is available in a range of colours; refer to colour chart available on request. Special colours available on request.

Chemical Resistance

Good resistance to a wide range of chemicals including Skydrol and jet fuel. Refer to our Ronacrete Technical Department for advice.

Health and Safety

Classified as irritant. Normal handling precautions are advised. Use gloves and/or barrier cream. If splashes enter eyes, wash with plenty of water and seek medical advice immediately. Clean from skin with a recognised hand cleaner. Further Health and Safety information is available on request.

Packaging and Storage

RonaFloor EWB is supplied in 5 litre packs and should be stored in unopened containers in dry warehouse conditions between 10°C and 25°C and protected from direct sunlight and frost. Shelf life is approximately 9 months.

Technical Advice

For further information on this or any other Ronacrete product, please contact the Ronacrete Technical Department.

Note

This product is a carefully formulated blend of resin, hardener and other chemicals, it is designed to be applied as sold. Any on-site dilution, however small, can affect the physical characteristics of the final finish as well as the application properties and curing times.

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Maintenance of Colour Consistency

To achieve optimum performance and appearance in shade and sheen, store and apply RonaFloor EWB at a constant ambient temperature, humidity and with the same air movement throughout the project. Avoid storage and application at air, substrate and material temperatures below 10°C.

Packs of RonaFloor EWB should be used in strict batch rotation. Individual areas or rooms should be treated with material from a single batch to avoid the inevitable minor variations in shade resulting from batch manufacture, otherwise matched batches should be used to minimise these variations (an extract from FeRFA Guide to the Specification and Application of Synthetic Resin Flooring). Minimise these variations (an extract from FeRFA Guide To The Specification And Application Of Synthetic Resin Flooring).

RonaFloor EWB provides a durable and economical decorative coating. Where higher performance is required and where surface appearance is more important, other coatings such as RonaFloor HB100 are recommended.

Osmotic blistering

In rare instances, osmotic blistering can occur when synthetic resin floor coatings are applied. FeRFA Guidance Note No 2: Osmosis in Resin Flooring ISBN 0 9538020 5 1) provides guidance on steps that can be taken to reduce the risk of osmotic blistering.

Site Attendance

When on site Ronacrete representatives are able, if asked, to give a general indication of the correct method of installing a Ronacrete product. It is important to bear in mind that Ronacrete Ltd is a manufacturer and not an application contractor and it is therefore the responsibility of the contractor and his employer to ensure he is aware of and implements the correct practices and procedures to ensure the correct installation of the product and that liability for its correct installation lies with the contractor and not with Ronacrete Ltd.

Technical Data at 20 °C	
Pot Life	1½-2 hours
Touch Dry Film Time	4-8 hours
Intercoat Period	4-24 hours
Foot traffic/fork lift traffic	24 hours/3 days
Full cure	7 days
Thickness	Nominal 50µ per coat
Ideal application temperature range	15-25° C
Maximum coverage per 5 litre unit on smooth, flat non-porous substrate	35-40m ²
Finished appearance	matt finish
Solids content	41.5% by volume
Maximum humidity for application	80% RH

Coverage per 5 litre pack	
1st coat @ 50 microns	35-40m ²
2nd coat @ 50 microns	35-40m ²
Coverage is based on application to smooth, flat, non-porous surfaces. Application to porous profiled surfaces will require additional material, and possibly additional coats. See Coverage.	