



RonaFloor EWB

Water based epoxy floor coating for commercial and industrial use



FEATURES

- good chemical resistance
- good abrasion resistance to foot and light wheeled traffic
- easy to apply
- water vapour permeable
- rapid drying and chemical curing
- can incorporate fine aggregate to achieve high slip resistance
- provides decoration; wide colour range

Description

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

Floors coated with RonaFloor EWB show good abrasion resistance to foot traffic and light wheeled vehicles. RonaFloor EWB is used as a decorative dust proof seal on floors in factories, warehouses, garages, etc.

Physical Properties

Physical Properties	
Working time	30 minutes
Intercoat period	8—24 hours
Foot traffic	Minimum 12 hours
Light wheeled traffic	Minimum 24 hours
Full chemical cure	7 days
Adhesion to concrete	> 1.5N/mm ²

Coverage

Typical application rate is 0.15 - 0.2kg/m²/coat (minimum of 2 coats required)

5kg unit coverage	-	25 - 33m ² per coat
10kg unit coverage	-	50 - 66m ² per coat

The application rate will vary depending on the porosity and profile of the prepared surface. Coverage of the second coat will be reduced when applied to a layer of coating containing slip resistant aggregate.

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Instructions for Use

Substrate Preparation

To achieve optimal adhesion it is essential that RonaFloor EWB is applied to structurally sound, clean and dry substrates. Surfaces must be prepared after making good any defects in the floor, ensuring that friable materials are removed and replaced (for fast cure repairs refer to RonaFloor Repair 1 Hour data sheets). Substrates must be prepared by captive shot blasting or similar approved method to produce lightly textured, laitance free surfaces. Substrates must be cleaned to remove grease, oil and dirt. Substrates must be allowed to dry after washing. Substrates must be vacuum cleaned, to remove loose shot and other loose materials. New concrete or screeds should be allowed to dry out for at least 28 days prior to coating. RH at the surface must be below 80% when measured with a hygrometer.

After surface preparation, substrates must exhibit readings of 25 or above when tested using a rebound hammer in accordance with BS EN 12504-2 type N and pull-off strengths in excess of 1.5 N/mm² when tested in accordance with BS EN 13892-8.

Application Conditions

The workability and application characteristics of RonaFloor EWB are adversely affected by low temperature; viscosity and curing time will increase. Therefore the material should ideally be stored, mixed and applied at 15°C to 25°C. At lower application temperatures the material should be stored at or warmed to 15°C to 25°C prior to use.

The substrate and uncured floor must be kept at least 3°C above the dew point to reduce the risk of blooming on the surface. Relative humidity to be less than 75% during application and the following 48 hours.

Mixing & Application

Pre-mix the pigmented Part A component before use. Add the full contents of the Part B component to the full contents of the Part A component and mix with a slow speed drill and spiral mixing paddle (MR3 type) until a homogeneous colour is achieved. Typical mixing time is 3 minutes.

The mixture is to be poured into another clean container and briefly mixed again for 1 – 2 minutes. If required, the material may be diluted with water up to a maximum of 10% to aid penetration of the first coat on porous substrates. The mixed RonaFloor EWB is poured onto the prepared substrate and spread using a suitable squeegee followed by rolling to its final application thickness with a suitable short or medium nap, mohair or lambswool roller. Material must **never** be taken directly from the initial mixing vessel, to avoid the risk of unmixed material being used.

It is important to apply at the specified coverage rate; 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.

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Instructions for Use (continued)

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.

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 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.

Cleaning

Brushes and tools should be cleaned immediately with water.

Colours

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

Colour Variation

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 (see FeRFA Guide to the Specification and Application of Synthetic Resin Flooring).

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.

Packaging

RonaFloor EWB is supplied in 5kg and 10 kg units.

Shelf Life and Storage

RonaFloor EWB 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.

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Health and Safety

Refer to Safety Data Sheet

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.

The information detailed in this leaflet is liable to modification from time to time in the light of experience and of normal product application, and before using, customers are advised to check with Ronacrete Ltd, quoting the reference number, that they possess the latest issue. Any person or company using the product without first making further enquiries as to the suitability of the product for the intended use does so at his own risk, and Ronacrete Ltd can accept no responsibility for the performance of the product, or for any loss or damage arising out of such use.