

304 HB EPOXY FLOOR COATING

HIGH BUILD, SOLVENT FREE EPOXY

DESCRIPTION

304 HB Epoxy Floor Coating is a two-part, solvent free epoxy floor coating which provides a hard-wearing, low maintenance finish for industrial & commercial applications.

304 HB Epoxy Floor Coating will provide a chemical and abrasion resistant smooth gloss coloured finish to which anti-slip aggregate can be added if required (see 'Slip Resistance'). Applied by roller and paint brush the product is low odour producing a seamless, hard wearing, hygienic floor finish.

ADVANTAGES

- Solvent free, low odour
- Very good chemical resistance
- Excellent adhesion to concrete and steel
- High build
- Tough and durable
- Easily applied
- Hygienic and easily cleaned
- Slip resistant options
- Wide range of colours

RECOMMENDED USES

- As a waterproof, tough, chemical resistant floor or wall coating in manufacturing and food preparation areas, warehouses, factories etc.
- As an internal lining for concrete or steel storage tanks containing oils, chemicals, water, raw sewage, etc.

TYPICAL PROPERTIES

Pot life @ 20°C:	45 Minutes
Foot Traffic @ 20°C	24 Hours
Vehicle Traffic @ 20°C:	48 hours
Full chemical resistance @ 20°C:	7 Days
Adhesion strength to concrete:	4 MPa (concrete failure)
Coverage:	0.25-0.30kg/m ² /coat
Chemical resistance:	Excellent resistance to dilute acids, dilute alkalis, oil, petrol, diesel, vegetable oils, raw sewage etc. Please consult our Technical Department for specific advice.

SLIP RESISTANCE

Should a non-slip finish be required, 508 Fine Particle Anti-Slip Additive can be added to the coating during mixing prior to application to produce an even and easily cleanable texture to the dried surface.

Alternatively, the 'Anti Slip' option can be selected when purchasing the product and the 250 micron grade of 508 Anti-Slip Additive will be added at 2.4% prior to receipt.

If a more aggressive anti-slip finish is required 504 Standard Anti-Slip Aggregate or 505 Large Anti-Slip Additive can be scattered onto the first coat of 304 HB Epoxy Floor Coating whilst still wet (Full broadcast at approximately 2kg/m² or a partial scatter at 0.5kg/m²).

The following day any excess aggregate may be swept from the surface using a clean brush prior to application of the second coat to 'sandwich' the anti-slip additive.

Results based on adding 508 Fine Particle Anti-Slip Additive (250 Micron Grade) @ 2.4%.

5kg unit	add 200g
15kg unit	add 600g

Dry PTV	45-46
Wet PTV	39

PTV RATINGS:

Slip potential classifications from Pendulum Test Values

PTV	Slip Potential
< 25	High
25 - 35	Moderate
> 35	Low

The above results must only be used as a general guideline as the slip resistance of a cured resin coating can vary considerably due to many factors including: application technique, variations in film thickness, dispersion of the anti-slip texturing additive and the surface variations of the substrate and location to where it will be applied.

To obtain accurate PTV readings that are site specific (if required) it is strongly recommended that a slip assessment pendulum test is undertaken on each specific site after completion of the installation when the resin has fully cured.

A full copy of the official test report is available upon request.

COLOUR RANGE

Ready Mixed:
Light Grey, Mid Grey, Dark Grey, White, Black, Tile Red, Mid Green, Signal Red, Mid Blue, Safety Yellow.

Also available (Minimum Order Quantities and increased costs may apply):
Most RAL Classic, BS4800, BS381C, RAL Design and NCS - excluding metallic and fluorescent shades.

PACK SIZES

- 5kg composite packs (including base, hardener)
- 15kg composite packs (including base, hardener)

COVERAGE

A 5kg pack is sufficient to treat 8.3-10.0 m2 of surface with the recommended two coat treatment, providing an overall d.f.t. of 350 - 430 microns.

SURFACE PREPARATION

CONCRETE

Concrete shall be a minimum of 21 days old and/or the residual moisture content shall be below 6%. Ensure that the concrete is clean and free from dust, laitance, grease, oil, curing compound and existing paint finishes etc. Blow holes and defective concrete shall be made good using [201 Epoxy Repair Mortar](#).

Block work walls shall be sealed using [401 Epoxy Floor Primer](#).

Diamond grinding or shot blasting is the preferred preparation method prior to application as this ensures that a suitable mechanical 'key' is achieved

STEEL

Steel surfaces shall be shot blasted or grit blasted to a nominal Sa 2.5 Swedish standard. All dust and grease shall be removed prior to coating application. If a delay is likely to occur between blasting and application then it is recommended that a coat of [404 Epoxy Metal Primer](#) is applied as holding primer to obviate flash rusting.

Note: Substrates with high moisture content or oil contamination can still be coated in most instances by the inclusion of one of our specialist primers. Please see [402 Damp Proof Coating](#) and [403 Oil Tolerant Primer](#) for full details.

MIXING

Pour the contents of the curing agent container into the base container and thoroughly mix, preferably by mechanical means until a uniform colour is achieved.

APPLICATION CONDITIONS

Do not apply to wet or uncured concrete surfaces.

The minimum application temperature is 5°C although please note that curing times will be significantly extended at low temperatures.

Under certain site conditions below 10°C there is a risk of whitening (blooming).

APPLICATION

Apply by brush or roller at a nominal rate of 0.25 to 0.3kg/m². After a minimum of 8 hours and before a maximum of 48 hours, apply a second coat at the same rate.

Should a non-slip finish be required, refer to the 'Slip Resistance' heading in this data sheet.

EQUIPMENT CLEANING

Clean equipment with [109 Tool Cleaner](#) prior to curing of the coating.

CURING

Allow to cure for a minimum of 24 hours @ 20°C prior to light foot traffic access and 48 hours @ 20°C prior to vehicular trafficking.

7 days cure @ 20°C is recommended prior to exposure to chemicals. Lower temperatures will extend the curing time.

STORAGE & SHELF LIFE

Store in dry conditions, out of direct sunlight, at temperatures between 10°C and 25°C.

304 HB Epoxy Floor Coating has a minimum shelf life of 12 months when stored in original, unopened containers in accordance with manufacturer's instructions.

HEALTH & SAFETY

- Avoid contact of the material with skin and eyes, wear gloves and goggles
- Wash off splashes immediately with soap and water
- Any eye contamination must be rapidly irrigated with copious amounts of clean water, and immediate medical attention sought

Please refer to Material Safety Data Sheet for additional Information.

304 HB Epoxy Floor Coating shall be applied strictly in accordance with the manufacturer's instructions.

For specific advice regarding any aspect of this product, please consult our Technical Department.

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CAUTION

- This product is for professional use only
- Applicators must be experienced and able to prepare and apply the coating correctly according to all relevant documentation
- If in doubt, contact our Technical Department before commencing any work