

RENOBUILD HB MORTAR

Description

Renobuild HB Mortar is a solvent free Epoxy resin system, together with specially graded lightweight fillers. The mixed mortar has excellent application characteristics, allowing overhead and vertical repairs to be easily accomplished.

Renobuild HB Mortar is used in conjunction with a separate primer such as Renobuild Tackprimer. The product is supplied as a three pack material, pre-weighed to allow easy on-site mixing and use. Renobuild HB Mortar provides a strong durable, weatherproof repair for concrete, brickwork, stonework and steel substrates.

Typical Uses

Repairs to spalled or damaged concrete structures; particularly for vertical and overhead applications. Cosmetic refurbishment of old stone and brickwork (colour matches possible).

Advantages

- Excellent adhesion to substrate
- Very good abrasion and impact resistance
- High build application in vertical and overhead locations
- May be applied to damp substrates
- Impermeable and wateproof
- Chemically resistant
- Ease of mixing and application
- Good mechanical properties
- Increases effective concrete cover
- Colour matches possible

Typical Properties

Colour: Light grey (other colours available upon request)
Density: 1175kg/m³
Pot Life: 50 minutes @ 20°C
Compressive Strength: 45 MPa
Tensile Strength: 8 MPa
Chemical resistance: **Excellent resistance** to 25% hydrochloric acid, 20% sulphuric acid, 10% citric acid, 40% sodium hydroxide, diesel and petrol. **Very good resistance** to 10% lactic acid, 20% phosphoric acid, **Good resistance** to many common industrial chemicals

Packaging

Renobuild HB Mortar is supplied in 5kg & 10kg packs

Procedure

Surface Preparation

The substrate shall be sound, clean and free from laitance, dust, oil, grease and other contaminants.

Smooth substrates should be roughened by mechanical means to form a 'key' in order to optimise adhesion. Scabbling, grit blasting, high pressure water jetting or needle gunning are satisfactory forms of preparation.

Any corroded re-enforcing steel shall be abraded or grit blasted to remove all scale, rust, etc.

If application of the Renobuild HB Mortar is to be delayed then a coat of Renobuild Steelprime should be applied as an anti-corrosive holding primer for prepared steelwork.

Please consult our Technical Department for specific advice.

Priming

Mix and apply a coat of Renobuild Tackprimer in accordance with the product data sheet instructions.

Mixing

Pour the contents of the CURING AGENT container into the BASE container and mix thoroughly by spatula or low speed drill/stirrer. The mixed resins shall be poured into a forced action mixing vessel, (Creteangle bucket or similar), and the FILLER added steadily whilst the mixer is in motion. Mix for 2-3 minutes until a uniform material is achieved.

Application

Whilst the Renobuild Tackprimer remains in a 'tacky' condition, i.e. within 90 minutes of application, apply the Renobuild HB Mortar by wood float, ensuring good compaction, and then close and finish with a steel float. Where a roughened profile is required, finish with a plastic float.

Renobuild HB Mortar may also be placed by gloved hand for comparatively inaccessible applications.

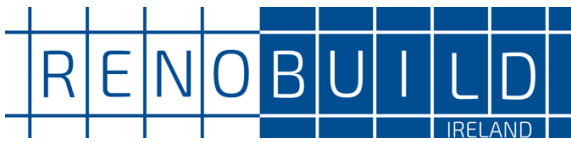
Chequer board application is recommended for larger areas of rendering. Application thickness of up to 50mm per layer may be achieved. If additional layers are required, scratch finish the first layer and then re-prime the following day prior to subsequent applications.

Equipment Cleaning

Clean equipment with Renobuild Toolclean prior to curing of the mortar.

Curing

Renobuild HB Mortar will have cured sufficiently after 24 hours @ 20°C to be put back into most kinds of service. 7 days cure @ 20°C will be required to ensure optimum mechanical properties and full chemical resistance.



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Clean equipment with Renobuild Toolclean prior to curing of the mortar.

Curing

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Storage and Shelf Life

Store in dry conditions at temperatures between 10°C and 25°C. Avoid low temperature storage prior to use of the material. Do not expose to freezing conditions.

Renobuild HB Mortar has a minimum shelf life of 12 months when stored in original, unopened containers in accordance with manufacturer's instructions.

Coverage

A 5kg pack yields 4.25litres of mortar, sufficient for 0.42m² @ 10mm thick.
(10kg pack pro rata.)

Limitations

Do not apply to wet or uncured concrete surfaces.
Do not apply at temperatures of 3°C or less.

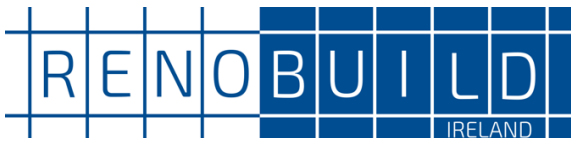
Health and Safety

Wear gloves and goggles.
Wash off splashes immediately with soap and water.
Any eye contamination must be rapidly irrigated with copious amounts of water, and immediate medical attention sought.
Please refer to Material Safety Data Sheet for additional information.

Renobuild HB Mortar 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 at renobuild@resbuild.co.uk

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RENOBUILD SF COATING

Description

Renobuild SF Coating is a two pack Epoxy coating which provides protective and decorative properties to concrete, steel and other substrates.

The material is supplied as a two pack system, comprising pre-weighed amounts of BASE and CURING AGENT. After mixing together, an easily applied chemical and abrasion resistant finish is produced. A slip resistant finish may be achieved by broadcasting an appropriate aggregate.

Typical Uses

As a waterproof, tough, chemical resistant floor or wall coating in food preparation areas, breweries, abattoirs, bottling factories, etc.

As an internal lining for concrete, steel or brickwork storage tanks containing oils, chemicals, water, raw sewage, etc. It is particularly suitable for chemical bunds.

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
- Range of colours

Typical Properties

Pot life @ 20°C: 45 Minutes

@ 10°C: 90 Minutes

Colours: Grey, Red (BS4800 or RAL colours on request)

Coverage: 0.25-0.30kg/m²/coat

Tack free time @ 20°C: 6 hours

Hard dry time @ 20°C: 10 hours

Full chemical resistance @ 20°C: 7 days

Adhesion strength to concrete: 3.9 MPa (concrete failure)

Adhesion strength to mild steel: >12 MPa

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.

Packaging

Renobuild SF Coating is supplied in 5kg and 15kg packs

Procedure

Surface Preparation

- a) 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 a proprietary repair compound e.g. Renobuild Floorpatch or Renobuild EPA. Block work shall be sealed using Renobuild Surfer. Suitable mechanical treatment such as vacuum grit blasting is the preferred treatment prior to application as this ensures a mechanical 'key' for the coating.
- b) 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 Renobuild Steelprime is applied as holding primer to obviate flash rusting.

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

Apply by brush, roller or airless spray at a nominal rate of 0.25 to 0.3kg/m². After a minimum of 14 hours and before a maximum of 48 hours, apply a second coat at the same rate. Should a non-slip finish be required, then broadcast an appropriate aggregate such as Quartz or Dynagrip, immediately after the first coat. Brush off excess aggregate the following day, prior to applying the second coat.

Equipment Cleaning

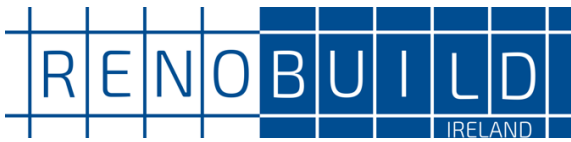
Clean equipment with Renobuild Toolclean prior to curing of the coating.

Curing

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

7 days cure @ 20°C is recommended prior to exposure to chemicals.

Lower temperatures will extend the curing time.



RENOBUILD SF COATING

Storage and Shelf Life

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

Renobuild SF Coating has a minimum shelf life of 12 months when stored in original, unopened containers in accordance with manufacturer's instructions.

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 400-480 microns.

Limitations

Do not apply to wet or uncured concrete surfaces.
Do not apply at temperatures of 3°C or less.

Health and Safety

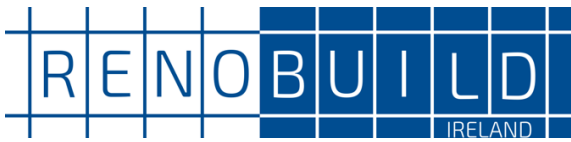
Avoid contact of the material with skin and eyes.
Wear gloves and goggles
Wash off splashes immediately with soap and water.
Any eye contamination must be rapidly irrigated with copious amounts of clean water, and immediate medical attention sought.

Please refer to Material Safety Data Sheet for additional information

Renobuild SF Coating shall be applied strictly in accordance with the manufacturer's instructions

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RENOBUILD TACKPRIMER

Description

Renobuild Tackprimer has been developed for use in conjunction with Renobuild Floorpatch and Renobuild HB Mortar for concrete repair operations, and with Renobuild Tufscreeed for seamless Epoxy floor toppings. The product exhibits outstanding adhesion to concrete and other surfaces.

Renobuild Tackprimer is supplied as a two pack system, comprising pre-weighed amounts of BASE and CURING AGENT components.

Typical Uses

As a primer for concrete prior to the application of Renobuild Floorpatch or Renobuild Tufscreeed.

As an adhesive for bonding new to old concrete e.g. resin bonding new floor toppings to old concrete.

As a protective treatment to exposed steel re-enforcement during concrete repair.

Advantages

- Solvent free, low odour
- Excellent adhesion to concrete and steel
- Impervious to water
- Low viscosity, easily applied
- May be applied to cool, damp surfaces
- Pre-packaged units ready for use
- Very good chemical resistance

Typical Properties

Viscosity: 500 - 700 cps @ 20°C

Pot life @ 20°C: 50 Minutes

Pot life @ 10°C: 100 minutes

Colour: Straw coloured liquid.

Adhesion to concrete: 3.8MPa (concrete failure)

Packaging

Renobuild Tackprimer is supplied in 1kg, 2kg and 5kg packs

Procedure

Surface Preparation

- a. Concrete surfaces 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. Suitable mechanical treatment such as vacuum grit blasting or mechanical scabbling is recommended to ensure the removal of contaminants and to provide a mechanical 'key' for the Renobuild Tackprimer.
- b. Steel reinforcement shall be abraded, wire-brushed etc. to remove all traces of rust. Priming should immediately follow preparation to obviate the possibility of flash rusting.

Mixing

Renobuild Tackprimer is supplied in pre-weighed containers ready for mixing.

Pour the contents of the CURING AGENT Container into the BASE container and thoroughly mix, preferably by mechanical means until a uniform consistency is achieved.

Application

Apply by brush or roller at a nominal rate of 0.15 to 0.30kg/m².

Ensure that the surface is thoroughly wetted out.

Allow the primer to 'tack up' for a minimum of 10 minutes prior to the application of subsequent treatments. Please refer to the Renobuild Floorpatch, Renobuild HB Mortar or Renobuild Tufscreeed product data sheet as appropriate.

Note: In thin section the primer will remain 'open' for 90 minutes @ 20°C, within which time subsequent application should be carried out. Should this period be exceeded then the surface must be re-primed prior to continuing.

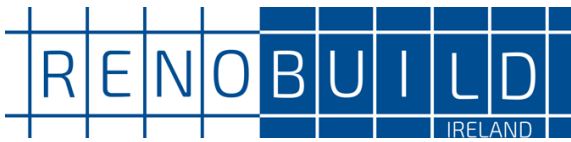
Equipment Cleaning

Clean equipment with Renobuild Toolclean immediately after use.

Curing

Touch dry after 6 hours @ 20°C

Hard dry after 12 hours @ 20°C



RENOBUILD TACKPRIMER

Storage and Shelf Life

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

Do not expose to freezing conditions.

Renobuild Tackprimer has a minimum shelf life of 12 months when stored in original, unopened containers in accordance with manufacturer's instructions.

Coverage

3.3-6.7m²/kg depending on surface texture.

Limitations

Do not apply to wet or uncured concrete surfaces.

Do not apply to temperatures below 3°C, or if there is a risk of frost during the initial curing period.

Health and 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.

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