

System 700

NEWTON 701-HB

High Build Epoxy Floor Coating

Rev 3.1 - 19 May 2017

PRODUCT CODE - 701-HB

INTRODUCTION

Newton 701-HB is a two-component solvent free epoxy resin based floor coating developed to provide protective and decorative properties to concrete, steel and other substrates. The material is supplied as a two pack system comprising pre-weighed amounts of both the Base and Curing Agent. After mixing together, an easily applied chemical and abrasion-resistant finish is produced.

**KEY BENEFITS**

- Solvent free, low odour
- Provides a fully sealed surface with very good chemical resistance
- Excellent adhesion to concrete and steel
- High build
- Tough and durable
- Easily applied
- Hygienic and easily cleaned

TYPICAL APPLICATIONS

As a waterproof, tough, chemical resistant floor coating or as an internal lining for concrete or steel storage tanks containing oils, chemicals, water, etc. It is particularly suitable for chemical bunds.

Suitable for use in:

- Food preparation areas
- Breweries
- Abattoirs
- Bottling factories
- Manufacturing areas
- Industrial units
- Warehouses
- Aircraft hangers

PACKAGING

Newton 701-HB is supplied in 5kg packs.

APPLICATION GUIDELINES

- 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, existing paint finishes, etc. Blow holes and defective concrete shall be made good using a proprietary repair compound
- Suitable mechanical treatment, such as vacuum grit blasting, is the preferred treatment prior to application, as this ensures a mechanical "key" for the coating
- All structural cracks should be repaired or treated
- Any holes or indentations should be filled with a suitable filler prior to application of Newton 701-HB
- Newly laid concrete should be smooth and not a tamped down finish
- 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

MIXING

Pour the contents of the Curing Agent tin into the Base container and thoroughly mix, preferably by mechanical means until a uniform colour is achieved.

APPLICATION

Apply by brush, short piled roller or airless spray, at a nominal rate of 0.25 - 0.30 kg/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 Silica Sand immediately after the first coat. Brush off excess sand the following day, prior to applying the second coat.

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.

LIMITATIONS

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

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TECHNICAL DATA

Features	Component A		Component B			Units
Form – Two components	Liquid		Liquid			
Colour	Grey		Milky white			
Specific gravity	N/A		1.03			
Pack size	5					kg
Shelf life	12					Months
Pot life @ 20°C & RH of 40%	30					Minutes
Pot life @ 10°C & RH of 40%	60					Minutes
Specific Gravity	1.6					
Yield per kg	0.625					Litres
Application rate in two coats	0.5 to 0.6					kg/m²
Application method	Brush or roller					
Application temperature	+5 to +35					°C
Odour	Slight epoxy					
VOC content	None					
Curing ¹	5°C	10°C	15°C	20°C	25°C	Units
Tack free	16	12	10	8	7	Hours
Ready for next coat	24	20	16	14	12	Hours
Ready for temporary foot traffic/protection boards	24	20	18	16	14	Hours
Ready for vehicular traffic	60	56	52	48	42	Hours
Ready for exposure to chemicals	14	10	8	7	7	Days
Fully cured	14	10	8	7	7	Days
Cured Performance	Result					Units
Colour	Grey					
Membrane thickness in two coats	0.32 to 0.38					mm
Adhesion to concrete	3.9					N/mm²
Adhesion to mild steel	> 12					N/mm²
Resistance to dilute acid/alkaline	Excellent					

The above data, even if carried out according to regulated tests are indicative and they may change when specific site conditions vary.

¹Figures are influenced by humidity also and so are indicative.

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HEALTH & SAFETY

- Wear gloves and goggles
- Wash off splashes immediately with soap and water
- Please refer to Material Safety Data Sheet for additional information
- Newton 701-HB shall be applied strictly in accordance with the manufacturers instructions
- For specific advice regarding any aspect of this product, please consult our Technical Department

COVERAGE

A 5kg pack is sufficient to coat 8.3 -10.0 m² of surface with the recommended two coat treatment, providing an overall thickness of 425 - 500 microns.

CLEANING

Thoroughly clean all tools and equipment with water after use.

STORAGE

Store in dry conditions at temperatures between 10°C and 25°C. Do not expose to freezing conditions. Newton 701-HB has a minimum of 12 months shelf life when stored in original, unopened containers in accordance with manufacturers instructions.

SPECIFICATION

Newton Waterproofing Systems are in partnership with RIBA NBS who publish details of our products and systems within their specification clause library to allow Architects ease of specification through their NBS Plus interface.

NBS clauses can be accessed via the technical resources area of the web site where a live NBS Feed is available at [NBS Plus Live Feed](#)

Our website has drawings available for download here [Technical Drawings](#) and a selection are also available via [FastrackCAD](#)

Newton Waterproofing Systems reserve the right to update product literature at any time. Please always refer to our [website](#) for the latest versions.

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