JOHN NEWTON
& COMPANY LIMITED (EST. 1848)

DATA SHEET

# NEWTON 901 HUMIDITY PRIMER

## Epoxy primer suitable for high humidity substrate

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PRODUCT CODE - PS901

## INTRODUCTION

Newton 901 Humidity Primer is a solvent free, two part epoxy resin coating, typically used as a primer for the Newton RubberFlex high performance deck and flat roof waterproofing system.

Newton 901 Humidity Primer would be chosen as the primer coating where the substrate contains humidity levels in excess of 4%.

Newton 901 Humidity Primer is also used to prepare the floor prior to the installation of Newton Baseboard.

The product can be easily applied to a large variety of porous surfaces such as concrete, screed, plywood boards, tarmac, felt, ceramic tiles and asphalt to provide a continuous primed surface ready for the primary liquid roofing or flooring membrane.

The curing period of Newton 901 Humidity Primer can be accelerated with the addition of Newton 904 HP Accelerant.

This reduces curing times significantly allowing the completion of the priming between weather occurrences.

## KEY BENEFITS

- Allows for priming of surfaces with high humidity levels.
- Solvent free and low odour.
- Excellent adhesion to porous substrates.
- Easily applied with a brush or roller.
- Non-toxic - see MSDS for further information.
- Curing can be accelerated to suit project conditions.

## TYPICAL APPLICATIONS

- Primer for Newton RubberFlex deck and flat roof waterproofing system.
- Primer band for the adhesion of Newton Baseboard to substrate.
- Primer for when Newton 205 ColorSeal is applied to concrete

## SPECIFICATION

John Newton & Company 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 http://newton-membranes.co.uk/nbs-plus-live-feed

Our web site has drawings available for download at http://newton-membranes.co.uk/technical-drawings and a selection are also available via FastrackCad at http://www.fastrackcad.com/CAD.ASP?Company_id=251

## TOOLS REQUIRED

- Power operated mixing device with suitably sized mixing paddle
- Short pile roller or brush

## CONSTRUCTION

The construction should conform with current Building Regulations, British Standards and relevant Codes of Practice.

## TRAINING & COMPETENCY OF USER

Newton 901 Humidity Primer is mainly used as the primer below the Newton RubberFlex deck and flat roof waterproofing system or as a primer before the use of Newton Baseboard. Both these application are specialist and should only be installed by those with experience of deck or roof waterproofing and in the case of Baseboard, below-ground structural waterproofing. It is recommended that as part of these works, Newton 901 be installed by contractors trained by John Newton in the correct use and specification of the product and it should be noted that this is a requirement of the Newton RubberFlex and Newton System 500 BBA Certificates.

## SURFACE PREPARATION - GENERAL

- The surface must be clean, dry and free from dust, laitance, oils, paints or other forms of contamination. Grit blasting, surface grinding or jet washing should be used to remove laitance and surface contamination. Adding mild detergents to the jet wash water will improve effectiveness.
- All structural cracks should be repaired and filled.
- Non-structural cracks > 0.5mm wide must be filled.
- Any holes or indentations should be filled with a suitable filler. Remove snots.
- Newly laid concrete should be fully cured and finished smooth, not tamped down.




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## SURFACE PREPARATION - PRIMER FOR NEWTON RUBBERFLEX AND NEWTON 205 COLORSEAL

Where Newton 901 Humidity Primer is to be used as the primer for Newton RubberFlex or Newton 205 ColorSeal, please refer to these product data sheets with regards to surface preparation.

## MIXING

Newton 901 Humidity Primer is a two part product:

**PART A: Epoxy Resin**

**PART B: Hardener/Curing Agent**

Pour all of the contents of PART B (Hardener/Curing Agent) into the PART A (Epoxy Resin) container and thoroughly mix, preferably using a low speed mechanical paddle, for about two minutes until a uniform milky colour is achieved. **Ensure that all the contents of PART B are added to the PART A container.**

Use the product immediately after mixing. The product has a pot life of 30 minutes.

## APPLICATION

The product can be applied by brush or roller.

Newton 901 Humidity Primer is normally applied in a single coat of 0.3kg/$m^2$. Where the substrate is very porous, it is recommended that a wash coat of product diluted with 10 to 20% water is applied at about 0.2kg/$m^2$ and allowed to dry prior to the main coat application.

## CURING

Curing is dependent on temperature and humidity and is normally between 5 and 24 hours. The additional use of Newton 904 HP Accelerant can reduce curing to between 1 to 2 hours.

Ensure that Newton 901 Humidity Primer is fully cured before application of further liquid products, especially polyurethane based liquid membranes such as Newton RubberFlex and Newton 205 ColorSeal.

It is important that the application of the main liquid waterproofing membrane takes place within 36 hours of the 901 Humidity Primer being applied.

If circumstances are such that it may not be possible to apply the membrane above the primer within 36 hours a mechanical key should be incorporated into the primer to assist the diminished chemical key. Add a light sprinkling of quartz sand (particle size 0.4 to 0.7mm) to the just applied first coat of primer. When trafficable, apply a second coat of primer to the same specification as the first coat.

**THE SECOND COAT AND ADDITION OF QUARTZ SAND ARE ONLY REQUIRED IF THE MEMBRANE APPLICATION ABOVE THE PRIMER IS NOT TO TAKE PLACE WITHIN 36 HOURS OF THE LAYING OF THE PRIMER**

## LIMITATIONS

- Only apply at temperatures that are 3°C above the dew point temperature and rising.
- Not suitable for nonpourous surfaces. Use Newton 903 PU Primer for nonabsorbent substrate.
- On hot surfaces (exposed to sunshine), it is recommended to wet surface before use to lower the temperature and allow for enough time for application.
- Not suitable to be used a stand-alone epoxy membrane.
- Product discolours in direct sunlight.

## COVERAGE

Single coat - 0.3kg/$m^2$. Very porous surfaces may require a wash coat of 901 Humidity Primer diluted with 20% water at about 0.2kg/$m^2$ .

## CLEANING

Thoroughly clean all tools and equipment with water.

## PACKAGING

Newton 901 Humidity Primer is supplied in 5kg, 10kg or 20kg containers.

## STORAGE

Store in dry conditions at temperatures between 10°C and 38°C. Do not expose to freezing conditions. Newton 901 Humidity Primer has a 12 months shelf life when stored in original, unopened containers in accordance with manufacturers instructions.

## HEALTH & SAFETY

Newton 901 Humidity Primer should only be used as directed. We always recommend that the Material Safety Data Sheet (MSDS)is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The MSDS is available upon request from John Newton or online via our web site. Please see contact details below.





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