System 500

NEWTON 503

3mm Cavity Drain Membrane

NEWTON WATERPROOFING SYSTEMS
Protecting buildings since 1848

Rev 3.3 - 19 November 2014

PRODUCT CODE - M5

INTRODUCTION

Newton 503 is a high quality cavity drain waterproofing and damp-proofing membrane suitable for use internally above or below the ground to retaining walls, vaulted soffits and floors. Newton 503 can be used within our Newton System 500 waterproofing system that includes Newton drainage and pumping systems. Please see the Newton Installation Manual for details on fixing and finishing of the product.

Newton 503 is guaranteed against deterioration for 30 years, and has a life expectancy of at least 50 years (DIN 9001:2000). Newton 503 is inert with high compressive loading stability. It is highly resistant to water, alkalies, saline solutions and organic acids, and it is not effected by minerals. It is also resistant to bacteria, fungi and other small organisms.

NEWTON 503	
Width (m)	**2.00**
Length (m)	**20.00**
Area (m^2)	**40.00**
Weight (kg)	**23.00**
Colour	**White**
Raw material	**High Density Polyethylene**
Thickness (mm)	**0.50**
Stud height (mm)	**3.00**
Compressive strength	**>200 kN/m^2**
Vapour permeability	**0.046g/m^2 x hr x mmHg**
Thermal resistance	**0.078m^2 K/W**
Thermal conductivity	**0.461 W/m K**
Air volume between studs	**1.56 litres/m^2**
Drainage capacity	**1.05 litres/sec/m^2**
Vicat softening temperature	**126 ˚C**

ASSOCIATED PRODUCTS

- Newton MultiPlug - A1 or Nuseal Plug - A2 - for fixing the membrane to walls
- Newton Waterseal Rope - A6 or Tape - A5 - for double sided vapour controlled jointing
- Newton Overtape - A7 & A8 for single sided vapour controlled jointing and sealing around protrusions through the membrane
- Newton Basedrain - D1, Floordrain - D3, Baseboard - D8 drainage systems
- Newton Pumps, Pump Systems and Pump Control Systems



TYPICAL APPLICATIONS

Wall and floor membrane as part of Newton System 500

SUITABLE SUBSTRATE - WALLS

- Concrete
- Brick
- Concrete block
- ICF - With special longer fixing plugs

SUITABLE SUBSTRATE - SOFFITS

- Concrete - to fall
- Brick - Arched or vaulted

SUITABLE SUBSTRATE - FLOOR

- Concrete raft or slab
- Flooring grade closed cell extruded polystyrene insulation (see section on page 2 for further information)

PRODUCT WARRANTY

Newton 503 is supplied with a product warranty of 30 years, and has a life expectancy of at least 50 years (DIN 9001:2000). Please note that this is not a guarantee. The waterproofing guarantee is provided by the specialist waterproofing contractor.

HEALTH & SAFETY

Use product only as stated within the Application Guides. Read the MSDS and System 500 Installation Manual before use.

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(a trading name of John Newton & Co. Ltd.)
Newton House, 17-19 Sovereign Way, Tonbridge, Kent, TN9 1RH
T: +44 (0)1732 360 095 **W:** www.newtonwaterproofing.co.uk **E:** info@newtonwaterproofing.co.uk