

DATA SHEET

NEWTON 503 MESH

Cavity Drain Waterproofing Membrane

Rev 4.1 - 10 November 2014

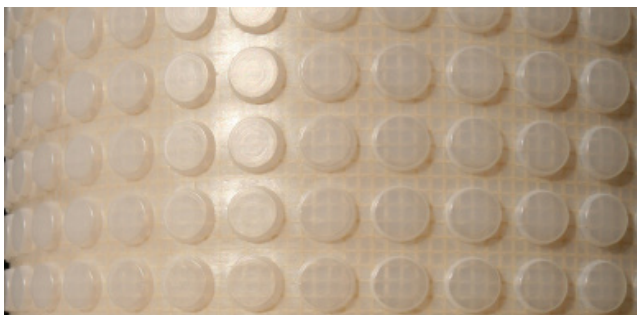
INTRODUCTION

Newton 503 Mesh is a meshed membrane suitable for use as a damp-proofing membrane above the ground, either internally or externally, or a waterproofing membrane when used below the ground as part of Newton System 500. With its 3mm stud, Newton 503 Mesh is just 3.5mm in overall thickness, and is the preferred meshed membrane where space is of a premium. Its high quality meshed surface provides an excellent 'key' for lime mortars, renders, plasters or dabbed plasterboard. Please see the Newton 503 Mesh Installation Instructions for details on fixing and finishing of the product.

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

ASSOCIATED PRODUCTS

- Newton MultiPlug - A1 for fixing to walls where 503 Mesh is used as a waterproofing membrane
- Newton Newlath Plugs - A16 for fixing to walls where 503 Mesh used as a damp-proofing membrane
- Newton Newlath Cob Plug - A17 for fixing to poorer quality substrate such as 'cob walls' where 503 Mesh used as a damp-proofing membrane
- Newton Waterseal Rope - A5 or Tape - A6 for double sided vapour controlled jointing
- Newton Mastic - A18 for sealing around protrusions through the Newton 503 Mesh, and for vapour controlled jointing as an alternative to Newton Waterseal Rope and Tape
- Newton Profile Strip - A19 provides a stop for Hydraulic Lime, Renders or Plasters for finishing just above the finished floor level



NEWTON 503 MESH	
Width (m)	1.00 / 2.00
Length (m)	20.00
Area (m ²)	20.00 / 40.00
Weight (kg)	14.00 / 28.00
Colour	White
Raw material	High Density Polyethylene
Thickness (mm)	0.50
Stud height (mm)	3.00
Compressive strength	>200 kN/m ² (with studs filled)
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

