

System 800

NEWTON 807 BKK ECO

Water Repellent Treatment For Exposed Walls

Rev 2.2 - 16 April 2019

PRODUCT CODE - BKK

INTRODUCTION

Manufactured by Diasen S.R.L. of Sassoferrato, Italy, Newton 807 BKK eco is a transparent, colourless wall coating, water and siloxane based, ideal to protect porous walls of various substrates from wind-driven rain. After treatment, the wall is deeply impervious to water ingress and so better protected against frost damage. The treated wall will continue to dry and vapour drive is not effected due to the coating being very vapour permeable.

The resultant dry wall is much more thermally efficient and will save on heating bills also. Having a low molecular weight, Newton 807 BKK eco penetrates deeply into the substrate, creating an invisible but deep layer of protection that is extremely stable to lime and very permeable to water vapour.

APPLICATION

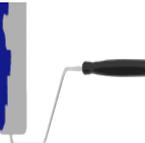


PACKAGING

COVERAGE



Mortar: 0.2 - 0.3 l/m²
 Stone & Ceramic: 0.3 - 0.7 l/m²
 Lime render: 0.5 - 0.7 l/m²



KEY BENEFITS

- DIY Solution - easy and quick to apply
- Very cost effective
- Long lasting water repellency
- Increased thermal efficiency of the wall
- Permeable to water vapour
- High resistance to weathering and UV
- Does not alter the colour of the wall finish
- Prevents surface efflorescences and moulds
- Solvent-free, non-toxic and odourless
- Non-flammable - No VOCs

TYPICAL APPLICATIONS

- Preventing wind-driven rain ingress to north facing or exposed elevations
- Lime rendered walls
- Water repellent treatment of walls and exposed bricks, natural stone or non-glazed ceramic
- Preventing moisture getting to insulation within cavity walls
- Improving the thermal performance of all wall types

SUITABLE SUBSTRATES & YIELD

- Mortar: 0.2 - 0.3 l/m²
- Natural Stone: 0.3 - 0.7 l/m²
- Lime render: 0.5 - 0.7 l/m²
- Non-glazed ceramic: 0.3 - 0.7 l/m²
- Concrete: 0.3 - 0.7 l/m²

PACKAGING

5 litre bucket.

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TECHNICAL DATA

Features	Result	Units	
Yield - Mortar	0.2 - 0.3	l/m ²	
Yield - Natural stone	0.3 - 0.7	l/m ²	
Yield - Lime render	0.5 - 0.7	l/m ²	
Yield - Non-glazed ceramics	0.3 - 0.7	l/m ²	
Yield - Concrete	0.3 - 0.7	l/m ²	
Form	Liquid		
Colour	Clear		
Dilution	Do not dilute		
Application temperature	+5 to +35	°C	
Service temperature	-15 to +40	°C	
Packaging - Plastic bucket	5	Litres	
Shelf life	24	Months	
Pot life	N/A	Months	
Curing	Result	Units	
Ready for next coat (20°C; RH 40%)	60	Minutes	
To not be adulterated by rain (20°C; RH 40%)	4	Hours	
Fully cured (20°C; RH 40%)	4	Hours	
Cured Performance	Result	Units	Test Method
Colour	Clear	N/A	
Weathering	10	Years	UNI EN ISO 11507
Vapour permeability (μ)	Highly breathable	7	

METHOD OF APPLICATION

- Brush
- Roller
- Garden type pressure spray

SPECIALIST TOOLS REQUIRED

No specialist tools are required.

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 a wide choice of downloadable [Technical Drawings](#), and a large selection are also available either via [FastrackCAD](#), or as BIM objects on the [National BIM Library](#) and/or [BIMobject.com](#)

TRAINING AND COMPETENCY OF THE USER

The application of Newton 807 BKK eco does not require any specialist training or know-how.

LIFE EXPECTANCY

Newton 807 BKK eco has an average life expectancy of about 10-years which is determined by accelerated weathering tests. Life expectancy is dependent on the substrate and the degree of weathering, which in turn is dependent on the location of the property and the direction of the prevailing winds.

When the walls have been newly treated, water will bead at the surface. Weathering will gradually diminish the level of water beading until no water beading can be seen. It is safe to apply further coats of the product at this time.

ANCILLARY PRODUCTS

There are no ancillary products.

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GENERAL BUILDING CONDITION

Many cases of penetrating dampness are because of faulty rainwater goods. Prior to treatment of the external walls, ensure that all gutters, hoppers and down pipes are in correct working order, not leaking and correctly fixed to the building and free from debris.

SURFACE PREPARATION

The wall should be in good condition. Brick walls should be well pointed and any surface damage and deterioration should be repaired prior to application of the product.

Surface cracks should be filled with an appropriate filler.

Structural cracks should be repaired by specialists.

Generally the surfaces to be treated must be structurally stable, clean and free from debris or loose substrate, salts, efflorescence, dust, grease and organic material.

Remove any presence of mould using 1 part bleach diluted within 10 parts water. Allow to dry.

PRIMING

A primer is not required.

APPLICATION CONDITIONS

- Do not apply below +5°C or above +35°C
- Do not apply if chance of rain or the relative humidity is above 70%
- During the summer months, apply at cooler times of the day
- Considering the huge range of wall surfaces, types of brick, stones and ceramics available, we recommend application to a small test area or test sample before a full application
- Best results are achieved on a dry and absorbent surface
- Do not apply in direct sunlight
- Not suitable for horizontal surfaces

STIRRING & MIXING

Newton 807 BKK eco is a single component product so does not require mixing. Does not require stirring but can be stirred if preferred.

APPLICATION

- Apply a first abundant coat by brush or spray, taking care to completely cover the entire surface
- Apply a uniform second coat before the first coat is dry
- Apply further coats until the substrate is at saturation

POT LIFE FURTHER USE

There are no pot life limitations.

If the container is hermetically sealed using the original lid, the product can be re-used up to 24-months from the date of first use as long as this is within the shelf life.

CLEANING

Clean tools and equipment with water.

STORAGE

Store in dry conditions at temperatures between 5°C and 25°C with containers fully sealed. Do not expose to freezing conditions.

HEALTH & SAFETY

Use product only as stated within the Application Guides. Read the MSDS before use.

Any specification/advice provided is only valid if used with products supplied by John Newton and Company Ltd (trading as Newton Waterproofing Systems). Newton Waterproofing Systems reserve the right to update product literature at any time. Please always refer to our [website](#) for the latest versions.