

System 800

NEWTON 806 CWC

Thermal Paint

Rev 2.3 - 15 February 2017

PRODUCT CODE - CWC

INTRODUCTION

Manufactured by Diasen S.R.L. of Sassoferrato, Italy, Newton 806 CWC is a white thermal coating for cold and poorly insulated surfaces. It contains specific mineral powders which, thanks to their insulating features, warm the surface of the treated wall.

Condensation is formed when warm air, holding water vapour, comes into contact with a cold surface (dew point surface). The air near to the cold surface cools and the cooler air is unable to hold as much water vapour as it was able to when it was warmer. The water vapour that the cooler air is unable to hold is deposited on the adjacent cool surface. The 5°C difference between a surface treated with CWC and one not treated with CWC will, in most cases, take the wall surface temperature to above the dew-point, meaning that the formation of condensation and mould is eliminated.

METHODS OF APPLICATION



PACKAGING



COVERAGE



KEY BENEFITS

- DIY Solution
- Very cost effective
- Quick and easy to apply
- Effective and hygienic solution to black mould
- Can be over-painted with water based emulsions or tinted with standard paint tints
- Solvent free, non-toxic and odourless
- Non-flammable - No VOCs

TYPICAL APPLICATIONS

Cold internal surfaces affected by condensation and subject to the formation of black mould such as:

- Solid walls
- Pantries and larders
- Bathrooms and shower rooms
- Kitchens
- Elevations exposed to cold winds

SUITABLE SURFACES

- Walls
- Ceilings

SUITABLE SUBSTRATES

Correctly prepared internal surfaces of:

- Existing painted surfaces
- Skimmed plasterboard
- Clean mortar walls
- Non-ferrous metal
- Render
- Plaster
- Timber
- MDF & Ply
- Glass
- Finishing plaster
- Wallpaper
- Timber panelling

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TECHNICAL DATA

Features	Result	Units	
Form	Liquid		
Colour	White		
Application rate	0.5 - 0.7	l/m	
Application temperature	+5 to +35	°C	
Service temperature	-15 to +40	°C	
Packaging - Plastic bucket	5	Litres	
Shelf life	12	Months	
Pot life	N/A		
Curing	Result	Units	
Ready for next coat (20°C; RH 40%)	6	Hours	
Fully cured (20°C; RH 40%)	6	Hours	
Cured Performance	Result	Units	Test Method
Colour	White	N/A	
Vapour permeability (μ)	Highly breathable	8	

METHOD OF APPLICATION

- Paint brush
- Roller
- Paint spraying machine

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 drawings available for download in [Technical Drawings](#). A selection are also available via [FastrackCAD](#), as well as a range of BIM objects on the [NBS National BIM Library](#)

LIFE EXPECTANCY

If applied correctly, at the correct application rate and to the correct substrate, Newton 806 CWC has a life expectancy of 10 years, at which point further coats may need to be applied.

TRAINING AND COMPETENCY OF THE USER

The application of Newton 806 CWC does not require any specialist training or know-how.

PACKAGING

5 litre plastic bucket.

APPLICATION RATE

0.5 - 0.7 l/m².

ANCILLARY PRODUCTS

There are no ancillary products.

SURFACE PREPARATION

- Cracks, substrate damage and deterioration should be repaired prior to application of the thermal paint
- Generally the surfaces to be treated must be structurally stable, clean, dry and free from debris or loose substrate, salts, efflorescence, dust, grease and organic material
- Timber or painted surfaces should be lightly sanded
- Remove any presence of mould using 1 part bleach diluted within 10 parts water. Allow to dry

PRIMING

A primer is not required.

STIRRING & MIXING

Stir the product with a paint stick for one minute or with a very slow paddle for 20 seconds. To reduce viscosity as required, dilute with up to a maximum of 15% water.

Standard water-based paint tints can be added during mixing. Use the ratios and mixing times recommended by the tint manufacturer.

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APPLICATION

- It is advisable to slightly dampen (not wet) porous surfaces before applying the product
- Apply the first coat with a roller, brush or airless spray to completely cover the area to be treated with a very thin layer
- Once the first coat is dry apply a second coat
- If the condensation and mould problems were pronounced, apply a third coat

SPRAYING SPECIFICATION

Newton 806 CWC can be sprayed with a standard paint spraying machine.

CLEANING

Wash tools with water before hardening.

OVER-PAINTING

Newton 806 CWC can be over-painted with water based emulsions. Ensure the Newton 806 CWC is dry before over-painting.

PROTECTION AND UPKEEP

Newton 806 CWC is the finished wall or ceiling coating and does not require any protection. Clean the coating as you would a water based emulsion, using a soft damp cloth.

LIMITATIONS

- Do not apply at temperatures lower than +5°C or higher than +35°C
- Do not apply above 70% RH
- Do not apply in direct sunlight
- Do not apply to outside surfaces
- Do not apply to ferrous metal surfaces

COLOUR

White - but can be tinted to any colour.

STORAGE

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

If these conditions are maintained and the product packaging is unopened, then a shelf life of up to 12 months can be expected.

FURTHER USE

If the container is hermetically sealed using the original lid, the product can be re-used up to 12-months from the date of first use as long as this is within the shelf life.

HEALTH & SAFETY

Use product only as stated within this Data Sheet. Read the MSDS before use.