

Rev 1.2 - 14 April 2020

PRODUCT CODE - 905-CM

INTRODUCTION

Newton 905-CM is a specially formulated, water-based curing compound utilising advanced acrylic copolymers, that ensures the correct curing of concrete and cement based mortars and coatings.

Sprayed directly over the freshly placed concrete, mortar or coating, Newton 905-CM inhibits the effects of the drying sun and wind to ensure full cement hydration. The product should be used to correctly cure the [Newton 103-S](#) and [Newton 107F](#) cement/acrylic waterproofing membranes, and the [Newton 203-RM](#) high-strength repair mortar whenever there is a risk of accelerated drying. In fact, Newton 905-CM should be considered a requirement when applying these products during the warmer months.

APPLICATION



PACKAGING



Single component within one container

COVERAGE RATE



KEY BENEFITS

- Ready-mixed and ready to apply
- A convenient and straightforward alternative to traditional curing aids such as polythene sheeting, damp hessian or sand
- A stable product that does not significantly alter the appearance of mortar/concrete
- Retains over 85% of the water within the product during the first 72 hours
- Water-based and safe for use in confined areas
- Enhances adhesion when over coated with Newton specialist coatings

TYPICAL APPLICATIONS

To prevent accelerated drying and so ensure correct curing of:

- Concrete
- Newton cement-based repair mortars, coatings and waterproofing membranes

METHOD OF APPLICATION

Pressure spray.

SUITABLE SUBSTRATE

- Concrete
- Cement-based repair mortars
- Cement-based coatings and waterproofing membranes

LIFE EXPECTANCY

Life expectancy is equal to that of the product it is applied to.



NEWTON 905-CM

Water-Based Curing Compound

TECHNICAL DATA

| Features | Result | Units |
|--------------------------------|-----------------------|-----------------------|
| Form – Single component | Low viscosity liquid | |
| Colour | White | |
| Specific Gravity @ 20°C | 1.03 | |
| Pack size (plastic container) | 5 | Litres |
| Weight | 5.3 | kg |
| Application rate | 0.15 to 0.17 | litres/m ² |
| Coverage per 5 litre container | 30-35 | m ² |
| Shelf life | 12 | Months |
| Pot life | N/A | |
| Application temperature | +5 to +35 | °C |
| Service temperature | As product applied to | °C |
| Odour | Slight neutral odour | |
| VOC content | 0 | % |

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](#)

ANCILLARY PRODUCTS

There are no ancillary products.

TRAINING AND COMPETENCY OF THE USER

Newton 905-CM should be applied by those who placed the concrete, mortar or coatings that the product is applied to.

PACKAGING

5 litre container.

APPLICATION RATE

0.15 to 0.17 litres/m².

COVERAGE

30-35 m² per 5 litre pack.

SURFACE PREPARATION

No preparation is required.

APPLICATION

Newton 905-CM should be spray applied to the surface of newly placed concrete, [System 100](#) cement-based waterproofing membranes, and [System 200](#) cement-based repair mortars.

Application should take place as soon as practicable after final finishing, and once any residual surface water from trowelling has evaporated, but generally within 15 minutes.

Apply using a conventional pressure spray with a fine nozzle at 0.15-0.17 litres per m² (6-7m²/litre), taking care to ensure complete and even application. Best results are achieved by holding the nozzle approximately 0.5 to 1m from the surface, whilst spraying backwards and forwards over small measurable sections (1-5m²).

For maximum curing efficiency, if the surface is subject to strong sunlight or drying winds, a second coat should be applied as above, once the first coat has dried and the membrane film has formed. This waiting time is generally 15 minutes, whilst the first coat is still tacky, depending upon climatic conditions.

POT LIFE & FURTHER USE

Newton 905-CM is a single-component product with no chemical curing reaction, therefore the product is reusable if the lid is correctly fitted and the product is stored as confirmed on page 3. In these conditions, the product should be used within three months.

There is no practical pot life.

NEWTON 905-CM

Water-Based Curing Compound

CLEANING

All tools should be cleaned with water immediately after use. Wash through the pressure spray device with clean water.

OVER-COATING

Surfaces treated with Newton 905-CM must be cured for a minimum of 72 hours before over-coating.

LIMITATIONS

- Do not apply at temperatures lower than +5°C or higher than +35°C
- Do not apply during rainfall or if rain is expected

COLOUR

White.

STORAGE AND SHELF LIFE

Store the product in dry, frost-free conditions in the original sealed containers, and protect from high temperatures (40°C+). In these conditions a shelf life of 12 months can be expected.

HEALTH & SAFETY

Use appropriate PPE for the environment the system is installed within. Use products only as stated within this Data Sheet and MSDS.