

# Repcoat N

One component water based acrylic anti carbonation coating



## DESCRIPTION

Repcoat N is an acrylic microporous coating system exhibiting excellent resistance to attack from carbon dioxide, chlorides and acid rain, with exceptional weathering resistance.

Repcoat N provides a smooth protective, decorative coating for concrete and other masonry surfaces. For effective anti-carbonation protection a two-coat treatment is recommended after the application of Repcoat N diluted with water 10% by volume as a primer.

The product is formulated to give a tough and coloured coating to a wide variety of substrates. A textured finish may be obtained if required.

## APPLICATIONS

- » Bridge abutments.
- » External concrete surfaces of storage tank and masonry surfaces.
- » Multi story buildings and villas.
- » Where a high external tough coating is required.
- » Concrete cladding.

## ADVANTAGES

- » Excellent resistance to carbon dioxide, and chlorides (water ad airborne).
- » Exceptional weathering resistance.
- » Protective and decorative coating.
- » Excellent waterproofing characteristics.
- » Water vapour permeable.

## STANDARDS

Repcoat N complies with the requirements of BS EN 1504-2 for principles 1.3, 2.2 and 8.2.

## METHOD OF USE

### SUBSTRATE PREPARATION

The substrate should be sound clean and free from dust and all loose or flaking material. All holes and deep cracks should be filled with a suitable filler.

All traces of oil, grease, chemical contaminants and extraneous matter which could reduce the adhesion of the product should be removed.

Any traces of mould or algae must be removed and the area treated with a suitable anti -fungicide or bleach

## TECHNICAL PROPERTIES:

Colour:	White, grey, and can be available in different colours
Density:	1.3 ± 0.1 g/cm <sup>3</sup>
Solid content:	57 ± 2% (by weight)
Touch dry time:	30 min to 4 hr, depending on the ambient temperature
Overcoating time between consecutive coats of Repcoat N:	4 - 5 hr, depending on the ambient temperature
Application temperature:	5 to 40°C
VOC:	< 50 g/ltr

Performance Characteristics	EN 1504-2 Requirement	Measured Value
Adhesion bond: BS EN 1542	≥ 1.5 N/mm <sup>2</sup> (for horizontal with trafficking)	≥ 3.5 N/mm <sup>2</sup>
Capillary absorption: BS EN 1062-3	≤ 0.1 kg m <sup>-2</sup> .h <sup>-0.5</sup>	≤ 0.05 kg m <sup>-2</sup> .h <sup>-0.5</sup>
Permeability to water vapour: BS EN ISO7783-2	S <sub>D</sub> < 5 m	S <sub>D</sub> < 0.25 m (pass)
Carbon dioxide permeability: BS EN 1062-6	S <sub>D</sub> > 50 m	S <sub>D</sub> ≥ 60 m (pass)

solution. For new cementitious substrates Repcoat N can be applied after 5 - 7 days and as long as Repcoat N Primer is used.

In case of any oil and grease deposits, surfaces must be degreased using degreasing products, steam cleaning, or any other suitable method which assures the surface is free from any oil traces.

## PRIMING

Repcoat N Primer is prepared by diluting 10% Repcoat N with water by volume. Repcoat N Primer should only be applied over clean and sound substrates that are free from oil, grease and curing compounds.

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Repcoat N Primer is applied at a rate between 0.13 - 0.16 litre/m<sup>2</sup> depends on the porosity of the substrates. It is important to wait for a minimum of 6 hours before the application of Repcoat N.

## MIXING

Stir Repcoat N thoroughly prior to use, to ensure proper pigment dispersion.

## APPLICATION

Repcoat N can be applied normally at temperatures between 5 – 40°C. Apply evenly with roller, brush or airless spray. For airless spray 5 - 10% dilution with clean water is recommended.

A one coat or two-coat system may be used. Two coats should always be used on dark, absorbent and heavily textured surfaces and when full carbonation protection is required. Porous, rough and irregular surfaces will reduce coverage rates.

## CLEANING

All tools should be cleaned immediately after application using fresh water.

## PACKAGING

Repcoat N is available in 20 litre drums.

## COVERAGE

Repcoat N: 0.13 – 0.16 litre/m<sup>2</sup> per coat to achieve 60 - 75 microns dry film thickness.

## STORAGE

Repcoat N have a shelf life of 12 months from date of manufacture if stored in proper conditions and sealed drums.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## CAUTIONS

### HEALTH AND SAFETY

As with all acrylic paints, care should be taken during use and storage to avoid contact with skin, eyes and mouth. Wear suitable protective clothing, gloves and eye/face protection.

Should accidental skin contact occur, remove immediately with plenty of clean water. If swallowed, seek medical attention immediately - do not induce vomiting.

For further information, refer to the Material Safety Data Sheet.

## FIRE

Repcoat N is nonflammable.

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- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
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- » Protective coatings.
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- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
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#### Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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