

# Technical Data

**ROCOL®**

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## Cicol™ NT

Part Code:	Pack Size:
44330	25kg
44334	50kg
44337	100kg
44340	1000kg

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The Cicol™ NT system is a tar free combined anti-skid wearing course and waterproof membrane eminently suitable for steel, concrete and aluminium substrates when a lightweight anti-skid surfacing is essential.

### Features include:

Lightweight: 10 - 20Kgs per square metre depending upon specification.	Waterproof: Completely waterproof, no separate membrane or anti-corrosion treatment needed.
Anti-Skid: A range of dressing aggregates are available to meet the required skid resistance values.	Chemical Resistance: Excellent chemical resistance against fuels, oils and de-icing compounds, etc.

### Technical Data (Typical)

<b>Mixing Ratio's (w/w)</b>	Base: Hardener: Mineral Filler 20.6 : 7.9 : 71.5
<b>Colour:</b>	Basic slurry dark grey but the final colour depends upon the aggregate dressing.
<b>Volume Solids:</b>	100%
<b>Specific Gravity (Mixed):</b>	1.8
<b>Pot Life:</b>	30 minutes at 20°C
<b>Material Consumption &amp; Surface Thickness:</b>	1.8 Kg/m <sup>2</sup> per mm thickness
<b>Compressive Strength (BS6319 – 28days):</b>	55N/mm <sup>2</sup>
<b>Flexural Strength (BS6319 – 28days):</b>	39N/mm <sup>2</sup>
<b>Shore D hardness:</b>	75
<b>Curing time @ 20°C:</b>	Light foot traffic after minimum 12 hours Full traffic load after minimum 16 hours and fully cured after 7 days
<b>Chemical Resistance:</b>	Once cured it is resistant to petrol, diesel fuel, lubricating oil, hydraulic fluids, de-icing salts, cleaning fluids, jet fuel (kerosene) and dilute mineral acids. For further information please contact our technical department.

### Basis:

A solvent free three component product based on epoxy and polyurethane resins and graded mineral fillers. When mixed these form a homogenous slurry which is then dressed with the selected hard wearing aggregate.

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## Uses:

To provide a durable anti-skid and waterproof surfacing for example:

Bascule bridges	Pontoons
Swing bridges	Oil platforms
Roll-on/Roll-off bridges	Footbridges
Ship's decks	

The use of the Cicol™ NT system is not confined to the above structures where its lightweight properties are a distinct advantage. There are many instances where its other properties make it an ideal choice of surfacing.

## Slurry thickness:

The thickness of the Cicol™ NT slurry is designed to suit the traffic conditions - typically:

Light traffic                      3.0 – 3.5 mm

Heavy traffic                      4.0 - 4.5 mm

These thicknesses exclude the subsequent dressing of the surface with aggregate.

## Slurry consumption guide: (theoretical)

1.8 kg/m<sup>2</sup> per 1mm thickness

3.6 kg/m<sup>2</sup> per 2mm thickness

5.4 kg/m<sup>2</sup> per 3mm thickness

7.2 kg/m<sup>2</sup> per 4mm thickness

All quoted consumption rates do not allow for wastage.

## Aggregate dressing:

A range of dressing aggregates can be used with Cicol™ NT slurry, please consult us regarding selection. Consumption will depend on the type and particle size chosen.

## Standard sizes available:

LIGHT TRAFFIC	MEDIUM TRAFFIC	HEAVY TRAFFIC
1.4-2.0mm	1.0-3.0mm	3.0-5.0mm

## Aggregate consumption guide:

LIGHT TRAFFIC	MEDIUM TRAFFIC	HEAVY TRAFFIC
Al <sub>2</sub> O <sub>3</sub> aggregate 1.4-2 mm	Al <sub>2</sub> O <sub>3</sub> aggregate 1 - 3 mm	Al <sub>2</sub> O <sub>3</sub> aggregate 3 - 5 mm
Gross 12 kg/m <sup>2</sup>	Gross 15 kg/m <sup>2</sup>	Gross 22 kg/m <sup>2</sup>
Net 7 kg/m <sup>2</sup>	Net 10 kg/m <sup>2</sup>	Net 16 kg/m <sup>2</sup>

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## Surface preparation:

### Concrete:

Concrete substrates should be grit blasted to give a clean and even texture which is to be free from all dirt, grease, loose debris and any other contaminants that will impair adhesion.

Any irregularities in the surface should be repaired using an approved high performance epoxy repair mortar laid without feathering and in accordance with manufacturer's specification.

All such repairs should be sufficiently cured prior to the application of the Cicol Primer. Refer to technical data sheet for full application details

### Steel:

All the steel surfaces to which the slurry is to be applied must be dry and free from oil and grease. The steel must then be blast cleaned using chilled iron grit to a minimum SA 2.5- Swedish Standard SIS 055900/1967, BS 4232 2nd Quality, with a minimum anchor pattern or blast amplitude of 75 microns for pedestrian traffic and 100 microns for vehicular traffic. All dust, residues and debris should be removed from the steel surface before application of the Cicol<sup>™</sup> NT slurry.

## Priming:

### Old Concrete:

Concrete surfaces should be clean, dry and free of laitence. Mechanical cleaning or abrasive blasting is recommended. The prepared concrete should then be primed with Cicol Concrete Primer at a rate of 0.3 kg/m<sup>2</sup>.

### New Concrete:

To ensure that no further release of moisture occurs which could result in the de-bonding of any applied surfacing, the moisture content of the concrete should be accurately checked not to exceed 5% (Protimeter). Traditionally, the moisture content is compensated for by allowing curing periods of up to 28 days prior to re-surfacing, however, it is recommended that the moisture content should be determined prior to any surfacing irrespective of cure time elapsed. The prepared concrete should then be primed with Cicol Concrete Primer at a rate of 0.3 kg/m<sup>2</sup>.

Any primer that has become contaminated or has cured should be re-prepared and a fresh primer coat applied.

### Steel:

The Cicol<sup>™</sup> NT slurry should be applied directly to the steel within 4 hours of blasting.

If the slurry cannot be applied directly to the steel with the 4 hours then Leigh's Metagard L574 blast primer may be used as a holding primer. For specific advice on other substrate preparation please call our Technical Helpline.

### Mixing:

Thorough mixing is essential, using a forced action mixer of suitable capacity. The following procedures should be adopted.

Mix both resin base and hardener together until thoroughly blended. Add the filler slowly and continuously whilst still mixing, until a homogeneous consistency is achieved. The mixing cycle will take approximately 5 - 7 minutes.

Cicol<sup>™</sup> NT slurry is now ready for use.

**UNDER NO CIRCUMSTANCES SHOULD EITHER THINNERS OR SOLVENTS BE ADDED.**

## Slurry application:

- § The Slurry should be applied with a notched trowel or squeegee at the minimum specified thickness. Wet film gauges should be used to ensure the correct thickness is applied.
- § During the laying of the slurry the following conditions must be strictly observed.
- § The slurry should be applied within the prescribed working life of 30 minutes at 25°C.
- § The ambient or the substrate temperature should be at a minimum of 5°C and rising.
- § The relative humidity should not be above 80%.
- § The substrate is to be completely dry and at least 3°C above dewpoint.

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## Application of aggregate dressing:

The aggregate dressing should be applied to the fluid slurry within 10 minutes of its application to ensure that the correct degree of aggregate penetration occurs.

The method of application for the aggregate dressing is particularly important and the chippings must be applied in a manner, which allows them to fall vertically on to the fluid slurry.

The application of the dressing must continue until complete saturation of the resin slurry has occurred. After 24hrs the excess aggregate can be swept or vacuumed from the surface.

## Health & Safety

Refer to Safety Data Sheet before use. If further copies are required or for further information, please contact ROCOL® at the address below:

**Safety Data Sheets** – Safety data sheets are available for download from our website [www.rocol.com](http://www.rocol.com) or may be obtained from your usual ROCOL® contact.

### Minimum precautions:

- § Refer to Safety Data Sheet before use
- § Avoid contact with skin and eyes i.e. wear gloves, goggles, etc
- § Ensure good ventilation, mechanical if necessary
- § Do not eat or smoke in the vicinity of work
- § Refer to supply container for additional warning information

**Disclaimer:** The information in this publication is based on our experience and reports from customers. There are many factors outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility.

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