



Fosroc Cicol NT Slurry

Heavy duty, fast setting, lightweight, pitch-free, eco-friendly, anti-skid surface dressing

Uses

Cicol NT Slurry provides a lightweight, yet extremely hard wearing anti-skid surface to a variety of substrates including steel, concrete, asphalt and timber.

Ideally suited for situations where fast setting properties and early trafficking is required, a few listed below:

- foot and road bridges
- RO/RO linkspans
- helicopter decks
- work platforms
- ships decks
- car parks, walkways
- wet work industrial areas
- cargo handling areas, etc.

Advantages

- Lightweight
- Hard wearing
- Flexible
- Easy application - Trafficable within 4 hours @ 23°C
- Excellent adhesion to steel and concrete substrates
- Non-slip, excellent grip even when wet
- Chemically resistant
- Waterproof
- Pitch-free - environment friendly

Description

Cicol NT Slurry is a three component system based upon solvent free, polyurethane resins, curing agents and chemically inert, graded silica fillers which when mixed forms a fluid, homogeneous slurry.

Specially selected Dynagrip aggregates are broadcast onto this slurry whilst it is still wet to provide a lightweight, flexible, durable, anti-skid dressing which can be used on a variety of substrates including steel, concrete, timber and aluminium.

Design criteria

The thickness of the Cicol NT Slurry is varied to suit traffic conditions as shown in the table below.

Traffic density	Cicol NT Slurry thickness	Aggregate type	Nominal thickness
Medium	: 3.0mm	20 mesh	3.5mm
Heavy	: 3.0mm	1 to 3mm	5.5mm

The final thickness of the finished surface dressing will be between 3.5 -5.5mm depending upon the exact system chosen to meet the expected end use.

For "Specialised uses" other than the aforesaid uses, a 4.5 mm thick coating of Cicol NT Slurry with 3 - 5mm aggregate can be used to give a nominal thickness of 8mm.

Cicol NT Slurry HB* is recommended on ramps with a slope greater than 5°C.

Properties

Pot life at 20°C	:	15 mins
Specific gravity	:	1.70
Tensile Strength	:	15 N/mm ²
ASTM C 307		
Curing time at 20°C	:	Foot traffic after 4 hours, vehicular traffic after 12 hours

Fully cured Cicol NT Slurry has been shown to be resistant to the following chemicals after continuous immersion for 12 months at 20°C:

Chemical resistance	:	Petrol
		White spirit
		Kerosene
		Hdraulic fluids,
		Dilute mineral acids and alkalis
		10% Urea in water
		De-icing salts
		Diesel Engine oil
		Aircraft fuel

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Instructions for use

Preparation

Cicol NT Slurry can be applied to a variety of substrates. As with all flooring materials or protective coatings, correct surface preparation is essential.

Steel substrates

Cicol NT Slurry is specially formulated to exhibit excellent adhesion to un-primed steel. However, all steel substrates should be blast cleaned to a minimum Sa2^{1/2} standard of cleanliness. An angular profile amplitude of at least 75 microns is recommended.

The slurry should be applied as quickly as possible to the blasted steel surface. If the standard of the surface falls below Sa2^{1/2} then the steel must be reblasted.

Concrete substrates

Cicol NT Slurry is applied to clean, sound, dry concrete substrates which are free of any laitance or loose particles. Mechanical scarifying or blasting methods are strongly recommended.

Prepared concrete substrates should be primed with Nitoprime 25 which is applied by lambswool roller to provide a thin even coverage. Avoid over application and puddles. Cicol NT Slurry is applied onto the Nitoprime 25 as soon as it is free from surface tack.

Wooden substrates

Cicol NT Slurry can be applied directly onto clean, dry timber substrates.

Aluminium substrates

Must be sweep blasted and degreased if necessary using Fosroc Solvent 102* to provide a sound mechanical key. Cicol NT Slurry can be applied directly to the prepared substrate.

Mixing

Mix the base and hardener thoroughly using a slow speed drill and Fosroc Mixing Paddle (MR3), or forced action mixers such as creteangle or zyklos. Add the mineral fillers and mix until a homogeneous slurry consistency is formed. The total mixing operation should take about 5-7 minutes. The Cicol NT Slurry is now ready for use. **Do not** add thinners or solvent.

Application

Once mixed the Cicol NT Slurry must be used within the specified pot life.

Pour the slurry onto the prepared surface. Work in lanes of 2-3 m wide masking off edges with tape. Spread the slurry using a steel trowel or squeegee taking particular care when joining up to the previous day's work.

Use of a wet film gauge is recommended to ensure the correct thickness and material usage. The Dynagrip surface dressing aggregate must be applied immediately after laying the Cicol NT Slurry.

The slurry coating is blinded to saturation by allowing the aggregate to fall vertically until no slurry is visible. Do not throw aggregate across the slurry as this may cause ridges. Masking tape must be removed before the coating has cured.

The Cicol NT Slurry must be allowed to cure for 04 hours at 23°C before being subject to foot traffic. At lower temperatures this period will be increased.

Cleaning

All tools can be cleaned immediately after use with Fosroc Solvent 102.

Limitations

- Cicol NT Slurry should not be applied when the relative humidity is greater than 80% or the ambient temperature is expected to fall below 5°C.
- Cicol NT Slurry should not be applied on ramps with a slope greater than 5%.
- Cicol NT Slurry should not be applied when ambient temperatures are above 35°C.

Technical support

Fosroc offers a comprehensive range of high performance, high quality flooring, jointing and repair products for both new and existing floor surfaces. In addition, Fosroc offers a technical support package to specifiers, end users and contractors, as well as on-site technical assistance in locations all over the world.



Fosroc Cicol NT Slurry

Estimating

Supply

Cicol NT Slurry : 14 litre packs

Nitoprime 25 : 1 & 4 litre packs

Coverage

Cicol NT Slurry : 3.0 litre/m² @ 3mm thick

Dynagrip

Aggregate	Gross (kg/m ²)	Net (kg/m ²)
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20 mesh	5.5	3.7
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1.0 to 3.0	7.0	5.2
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Nitoprime 25 : 4.0 - 5.0 m²/litre

Notes : Coverage figures given are theoretical - due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced - site trials are recommended.

For "specialised uses", please contact the local Fosroc office for coverage figures.

Storage

Shelf life

All products have a shelf life of 12 months if kept in a dry store in the original, unopened packs.

Storage conditions

Store in dry conditions between 5°C and 30°C away from sources of heat and naked flames, in the original, unopened packs. If stored at high temperatures the shelf life will be reduced.

Flash points (Abel closed cup)

Cicol ET Slurry FS is non-flammable.

Fosroc Solvent 102 : 33°C

Nitoprime 25 : 39°C

Precautions

Health and safety

Cicol NT Slurry, Nitoprime 25 and Solvent 102 should not come into contact with the skin or eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours.

Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye protection. If working in confined areas, suitable respiratory protective equipment must be used.

The use of barrier creams provide additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. **Do not use solvent.**

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advise. If swallowed, seek medical attention immediately - **do not** induce vomiting.

Fire

Fosroc Solvent 102 is flammable. Ensure adequate ventilation. **Do not** use near naked flame. **Do not** smoke.



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Additional Information

Fosroc manufactures a wide range of complementary products which include :

- waterproofing membranes & waterstops
- joint sealants & filler boards
- cementitious & epoxy grouts
- specialised flooring materials

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Fosroc's 'Systematic Approach' to concrete repair features the following :

- hand-placed repair mortars
- spray grade repair mortars
- fluid micro-concretes
- chemically resistant epoxy mortars
- anti-carbonation/anti-chloride protective coatings
- chemical and abrasion resistant coatings

For further information on any of the above, please consult your local Fosroc office - as below.

* Denotes the trademark of Fosroc International Limited

† See separate data sheet



Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. **All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.**

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