



Nitoflor® CC100

Polyurethane based conductive floor coating, with resistance ranging from 5×10^4 - 1×10^6 Ohm

Uses

Nitoflor CC100 system has been designed for use as a seamless, conductive, abrasion resistant coating for epoxy resin floor toppings.

Advantages

- **Static control** - provides an effective passage to earth
- **Durable** - good resistance to abrasion
- **Chemical resistant** - good resistance to a wide range of chemicals
- **Decorative** - available in a number of RAL colours
- **Hygienic** - Provides a seamless floor surface which is easily cleaned.

Description

Nitoflor CC100 is a two component polyurethane floor coating. The cured product forms a pigmented, conductive coat with a surface resistance of 5×10^4 - 1×10^6 Ohm, for epoxy or polyurethane floors.

Colours

Nitoflor CC100 can be supplied only in silver grey. Please contact Fosroc.

Flooring system

- 1 coat of Nitoflor CC100 under coat
- 2 coats of Nitoflor CC100 Top coat

Properties

	Undercoat	Topcoat
Mixing ratio parts by weight	base : hardener 20 : 80	base : hardener 79 : 21
Specific gravity (mixed)	approx. 1.0	approx. 1.2
Volume solids (mixed)	approx. 34%	approx. 37%
Electrical resistance	3×10^3 - 9×10^3 Ohm	5×10^4 - 1×10^6 Ohm
Material consumption (theoretical)	6.3- 7.3 m ² / litre	0.10 kg/m ² per coat
Pot life at 30°C	30 minutes	30 minutes
Curing time @ 20°C	Touch dry after 2 - 3 hours, light foot traffic after approx. 16 hours, recoatable after 16 hours, within 7 days. Fully cured after 7 days.	
Chemical resistance	The cured coating is resistant to salts, mineral oils and fats and diluted mineral acids and alkalis.	
Charge decay time for 5 KV as per Federal Test method 101B Method 4046.	0.01 secs	

For further information on chemical resistance please contact Fosroc.

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Technical Support

Fosroc offers a technical support service to specifiers, end users and contractors, as well as on-site technical assistance in locations all over the country.

Temperature limitations

Nitoflor CC100 system should not be applied at temperatures below 5°C, nor at a substrate temperature which is lower than the dew point temperature plus 3°C. The maximum application temperature is 35°C.

Surface preparation

It is essential to thoroughly prepare the floor surface in order to achieve a sound, clean and dry substrate. Nitoflor CC100 system is a relatively thin coating, the substrate must be fine textured. Any surface irregularities may show through causing excessive wear on high spots and changing the perceived colour of the coating. Epoxy and polyurethane substrates : clean, dry and not older than 7 days.

Primer

No primer is necessary.

Mixing Undercoat

Proper mixing of the Nitoflor CC100 system undercoat components is essential. The entire contents of the base component should be poured into the hardener container. Mix the components for atleast 3 minutes. The use of a heavy duty slow speed drill fitted with a mixing paddle is desirable.

Application of Undercoat

The Nitoflor CC100 system Undercoat should be applied to the prepared surface immediately after mixing, using a brush or roller. Ensure that the area is completely coated and that 'ponding' of the material does not occur. Before applying the top coat the conductivity of the undercoat must be determined.

Mixing Topcoat

Proper mixing of the Topcoat components is essential. The entire contents of the hardener container should be poured into the base container. Mix the components for at least 3 minutes. The use of a heavy duty slow speed drill fitted with a mixing paddle is desirable.

Application of Topcoat

The Nitoflor CC100 topcoat should be applied to the prepared surface immediately after mixing, using a roller. Ensure that the area is completely coated and that 'ponding' of the material does not occur. The second coat can be applied as soon as the first coat has initially dried (typically 16 hours). The time will be dependent on the type of surface and the ambient conditions.

Material consumption (theoretical)

Nitoflor CC100 Undercoat	6.3 - 7.3 m ² / litre
Nitoflor CC100 Topcoat	0.100 kg /m ² /coat

Pot life at 30°C

Nitoflor CC100 Undercoat	Approx. 30 minutes
Nitoflor CC100 Topcoat	Approx. 30 minutes

Curing time at 30°C

Touch dry after 2 - 3 hours, light foot traffic after approx. 16 hours, recoatable after 16 hours, within 7 days. Completely cured after 7 days.

Tool cleaning

Nitoflor CC100 system can be removed from tools and equipment with Nitoflor Sol.



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Estimating

Packaging

Nitoflor CC100 system Topcoat is available in 4 kg packs comprising of base,hardener. Nitocote CC100 Undercoat is supplied in 2.4 litre pack comprising of base and hardener

Coverage

Refer to the table given under 'Properties'

Storage

Shelf life

Nitoflor CC100 system has a shelf life of 12 months if kept in a dry, cool store in the original, unopened packs.

Precautions

Health & Safety instructions

Contact with skin and eyes should be avoided. Should be used only in well ventilated areas. In case of insufficient ventilation, suitable respiratory equipment should be worn. Breathing vapour should be avoided. Suitable protective clothing, gloves and eye/face protection should be worn. If swallowed, medical advice shall be sought immediately and show the container or label - vomiting should not be induced. After contact with skin, washing immediately with plenty of water and soap is recommended. In case of contact with eyes, rinsing immediately with plenty of water and seeking medical advice is suggested . Should be kept away from sources of ignition - Smoking is prohibited during handling/ application of the product.

Flash points

Undercoat base	>100°C
Undercoat hardener	NA
Topcoat base	25°C
Topcoat hardener	39°C
Nitoflor Sol	33°C

Disposal

Disposal of spillage or empty packaging should be in accordance with local waste disposal regulations. For further information refer to the Material Safety Datasheet.

Additional information

The Fosroc range of associated products includes high strength cementitious grouts, epoxy grout, polyester resin based mortar for presetting of steel shims to level or for direct bedding of small base plates, resin anchoring systems for same day anchoring of bolts in drilled holes in concrete or rock. Also available are a range of products for construction viz. admixtures, curing compounds, release agents, flooring systems and repair mortars.

Separate datasheets are available on these range of products.

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Important note :

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.



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