

Epoxy resin based primer for concrete surfaces

Uses

It is suitable for priming concrete surfaces prior to the application of any of the Nitoflor SL and TF range of resin based floor toppings, Nitocote range of protective coatings or Nitomortar epoxy repair mortars.

Advantages

Improves the adhesion of epoxy floor toppings and epoxy mortars with the substrate.

Description

Nitoprime 25(M) is a two component epoxy based primer with good penetrating properties for concrete surfaces.

Technical support

Fosroc provides a countrywide technical advisory service supported by a team of specialists in the field.

Properties

	@ 20°C	@ 35°C
Pot Life	4 hrs.	1 1/2 hrs.
Cure	4-6 hrs.	2-4 hrs.
Time between coats	4-6 hrs.	3-5 hrs.
Initial hardness	24 hrs.	18 hrs.
Full Cure	7 days	5 days
Specific gravity	1.022 g/cc	

Below 20°C, above mentioned times will increase

Application instructions

Surface preparation

Thorough surface preparation is vital. For best results Fosroc recommends mechanical preparation techniques. (For example, mechanical scarifying, grit-blasting, sand blasting).

For flooring and tanking works, care must be taken to ensure that the substrate does not suffer from rising dampness. If such conditions exist, consult Fosroc.

New concrete floors

Should be at least 28 days old or have a moisture content of less than 5% before proceeding with epoxy application. Laitance and deposits on new concrete floors are best removed by light grit blasting, mechanical scrubbing or grinding. On smaller areas thorough etching using Reebaklens may be considered. After etching the floor, it should be thoroughly washed with clean water and then allowed to dry.

Old concrete floors

Again, mechanical cleaning methods are strongly recommended on old concrete floors, particularly where heavy contamination by oil and grease has occurred or existing coatings are present. These may well have been absorbed several millimeters deep into the concrete. To ensure good adhesion all contamination should be removed and the surface thoroughly cleaned of all dust and loose debris. A thorough detergent wash is also recommended followed by cleaning with water and mopping it off to a dry state.

Mixing

Add the entire contents of the hardener tin to the base and mix thoroughly for 3 min. until homogeneous, using a slow speed drill (400 - 500 rpm) fitted with a suitable mixing paddle.

Application

Once mixed the primer should be applied immediately in a thin continuous film to the clean prepared surface. Work the primer into the surface using a stiff brush or roller. Excess application and puddling should be avoided. On porous surfaces Nitoprime 25(M) will be absorbed very quickly leaving characteristic coloured dry patches. It is recommended that a second priming coat be applied to these dry areas. This not only helps to ensure good adhesion but also prevents air release from the porous substrate which may cause bubbles in the final epoxy topping later.

For Nitoflor SL applications, leave the Nitoprime 25(M) to dry overnight. For Nitoflor TF, Nitomortar and Nitocote, allow the solvent in the Nitoprime 25(M) to evaporate and become tacky. Please refer to the relevant datasheets to ensure this.

Limitations

Temperature limitations

Recommended application range is 10 °C - 40°C. Consult Fosroc where application or service is outside the range of 5°C to 40°C.

Estimating

Packaging and coverage

Nitoprime 25(M) is available in 1, 2.5 & 5 kg packs.

Nitoprime 25(M)

Coverage

	Approximate coverage rate
Nitoprime 25(M)	6-8m ² /lt

Over vacuum dewatered floors finished with power trowels, after surface preparation, coverage of Nitoprime 25(M) may be much more than the above value.

Storage

Nitoprime 25(M) has a shelf life of 12 months when stored in unopened containers under normal warehouse conditions.

Precautions

Health & Safety

Nitoprime 25(M) should not come into contact with skin and eyes or be swallowed. Avoid prolonged inhalation of solvent vapours.

Some people are sensitive to epoxy resins, hardeners and solvents. Gloves, goggles and barrier creams should therefore be used while handling the product.

Adequate ventilation should be ensured and if working is enclosed areas, suitable breathing apparatus must be used. If the resin comes in contact with skin, it must be removed before it hardens with a resin removing cream, followed by washing with soap and water - solvent should not be used.

Nitoflor Sol should be washed from skin immediately with soap and water. Should accidental eye contamination occur with any of the above products, it should be washed well with plenty of water and medical advice should be sought. If swallowed medical attention should be sought immediately. Vomiting should not be induced.

Cleaning

All tools and equipments should be cleaned with Nitoflor Sol immediately after use. Spillages should be absorbed with sand or sawdust and disposed off in accordance with local regulations.

Fire

Nitoflor Sol, Nitoprime 25(M) are flammable. Do not expose to naked flames or other sources of ignition. Do not smoke while handling the materials. Containers should be tightly sealed when not in use. In the event of fire, extinguish with CO₂ or foam type extinguishers.

Flash point

Nitoflor Sol	33 °C
Nitoprime 25(M)	25 °C

Additional Information

In addition, the Nitoflor range of industrial flooring products include concrete hardeners, resin floor coatings, toppings and screeds designed to meet most requirements of modern industrial environments. For further information contact the local Fosroc office.

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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