

Nitoprime 33

High performance primer for the Cemtop range of cementitious flooring materials

Uses

Nitoprime 33 is the recommended primer for the Cemtop range of cementitious flooring when applied to concrete and cementitious screeds. The primer film forms and seals the substrate to prevent air release which could otherwise cause pinholes in the floor topping. In addition it “wets” out the substrate, promotes adhesion and prevents desiccation of the Cemtop.

Advantages

- Excellent adhesion to concrete and cementitious screeds
- Excellent water resistance after film formation
- Economic, easy to use with no restrictive pot life

Description

Nitoprime 33 is a water-based styrene-acrylate copolymer emulsion, formulated to achieve specific performance characteristics. It is supplied as a single component white liquid.

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.

Design Criteria

For the majority of applications in both the industrial and commercial sectors, two coats of primer are recommended. If the floor is extremely porous, a third coat may be necessary.

Typical Properties

Typical values

Specific gravity	:	1.02
Solids content	:	44-46%
Drying time at 20°C	:	2-4 hours
Maximum time between coats at 20°C	:	24 hours
Maximum overlay time at 20°C	:	8 hours
Minimum application temperature	:	10°C

Specification Clause

The primer for the specified Cemtop cement based floor topping should be Nitoprime 33, a styrene-acrylate copolymer emulsion.

Application Instructions

Cemtop

The installation of Cemtop is a specialist activity. The system must be applied by a Fosroc recommended contractor who has been fully trained in the use of the materials, using equipment supplied or approved by Fosroc.

Installation must not be attempted without reading the Cemtop Application Guide and the relevant product data sheet which give full details of the procedures for priming and application of the subsequent Cemtop overlay.

Nitoprime 33

The first primer application is carried out after the existing concrete floor has been prepared and cleaned. Nitoprime 33 is diluted in the ratio of 1:5 (primer to clean water by volume). It is applied and worked into the floor by broom. The primer should not be applied by roller or spray.

The second coat of primer should be diluted in the ratio of 1:3 (primer to clean water by volume). It should be carried out when the first coat is dry. If the floor is porous, it may be necessary to prime a third time at a ratio of 1:3. The primer must be well brushed into the surface. Ponding of the primer must be avoided because this can lead to failure at the bond line.

During application the area must be well ventilated to speed the drying of the primer. The application of Cemtop can proceed as soon as the primer has dried.

Cleaning

Nitoprime 33 should be removed from tools, equipment and mixers with clean water immediately after use. Dried material can only be removed mechanically.

Limitations

Nitoprime 33 is suitable for use on sound concrete and cementitious screeds that are free from surface contamination and have been well prepared. It should not be used on oil contaminated concrete or existing epoxy toppings. An epoxy primer, Nitoprime 30, is suitable for these applications (consult separate data sheet). Please consult Fosroc for advice on the suitability of other substrates.

Nitoprime 33 and Cemtop should not be applied when the surface temperature of the substrate is below 10°C, or likely to fall below 10°C within 48 hours of application.

Nitoprime 33

Estimating

Supply

Nitoprime 33 : 1 litre
Concentrate

Coverage

Nitoprime 33 Concentrate: 50-60 m²/litre/coat (after dilution with clean water as specified).

The coverage figures are for guidance only. The actual rate depends on the absorbency and surface roughness of the substrate.

Note: The primer must be well brushed out and ponding avoided as too thick a layer of cured primer may cause debonding

Note: In accordance with Commercial or Health & Safety requirements packaging detail may alter. Please contact your local Fosroc office for detail.

Storage

Nitoprime 33 has a shelf life of 12 months if stored in the original unopened container. Protect from frost and extreme heat.

Precautions

During use Nitoprime 33 should not come into contact with skin and eyes or be swallowed. Wear suitable gloves and eye/face protection. In case of contact with skin, wash well with soap and water. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

Fire

Nitoprime 33 is non-flammable.



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