# technical data sheet.


# primer.

## nano penetration primer

**Improves adhesive for leakfree and leakfree pro by creating smooth surfaces and filling up pores of concrete.**

# primer.

## description.

**reflecto's primer**, described as a premium nano penetration primer or Nano Pene Classic S is a two-component solventless epoxy based primer. It exhibits rapid cure and a workable pot life. Good adhesion to porous substrates with penetrating properties for concrete surfaces.

Primer's nano penetrating technology permeates into the concrete membrane to permanently seal pores, improving waterproof adhesivity to up to 2.8N/mm$^2$.

## recommended for.

Priming concrete surfaces prior to the application of topcoat of epoxy based floor toppings **leakfree** / **leakfree.**$^{pro}$

## packaging.

1 kg, 5kg, 20 kg

## basic data.

| | |
|---|---|
| Colour | Clear or color available on request |
| Gloss Level | Gloss |
| Volume Solid | Approx. 80 % ± 2 % by weight |
| Dry Film Thickness | 150 microns per coat |
| Theoretical Spreading Rate/Coverage | 0.25 kg/m2 for ~ 175 microns |
| Temperature Resistance | 93°C (dry) |
| SG-Mix | 1.18 gr/ml |
| Flash Point | Base: 53°C<br>Hardener: 48°C |
| Shelf | Life At least 12 months when stored cool and dry |

## characteristic.

- Low Viscosity
- Improves the adhesion of epoxy floor toppings
- Self-smoothing
- Good penetration capabilities.
- Easy to apply

## instruction for use.

Surface preparation:
Thorough surface preparation is vital. For the best results, we recommend mechanical preparation techniques. For example, mechanical scarifying, grit-blasting, sand blasting. For flooring works, care must be given to ensure that the substrate does not suffer from rising dampness. If such conditions occur, please consult Reflecto.

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

Old concrete floors:
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 have been absorbed several millimeters deep into the concrete. To ensure good adhesion, all contaminants must be removed and the surface cleaned of all dust and loose debris. A thorough detergent wash is also recommended followed by rinsing with clean water and mopping it off to a dry state.


Mixing:
Add the entire contents of the hardener tin to the base and mix rigorously for 3 mins until mixture is homogeneous by using a slow speed drill ( 200 - 400 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 by using a stiff brush or roller. Excess application and puddling must be avoided. On porous surfaces, **primer.** will be absorbed very quickly. For applications, leave **primer.** to dry overnight.

Brush / Roller: Recommended to use
Mixing Ratio: Base : Hardener = 4 : 1 by weight
Thinner: Recommended to use
Cleaner / Cleaning Solvent: Thinner Epoxy

## additional data.

Overcoating Intervals

| Temperature | 25°C | 32°C |
|---|---|---|
| Minimum | 7 hours | 4 hours |
| Maximum | 1 month | |

Drying / Curing Time

| Temperature | Touch Dry | Through Dry | Full Cure |
|---|---|---|---|
| 25°C | 2 hours | 14 hours | 7 days |
| 32°C | 1 hour | 8 hours | |

Pot Life

| Temperature | Pot Life |
|---|---|
| 32°C | 35 minutes |

## storage and handling.

Product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed. Handle with care, stir well before use.

## safety precautions.

Keep away from heat, spark and open flames. Avoid vapour on skin and eyes. Keep the container closed and stored in a cool, ventilated area when not in use. Proper ventilation and protective measures must be provided during mixing, application and drying, to keep vapour concentration within safe limits and to protect against toxic hazards. Necessary safety equipment must be used and ventilation requirements carefully observed, especially in confined and enclosed space, such as tank interior and building.