



NanoCoat WB

Water dispersible epoxy coating

Description NanoCoat WB is a two part, solvent free, water dispersed epoxy coating. Providing a protective coating which is impermeable to liquids, is abrasion resistant and easy to clean. NanoCoat WB is water based so it can be applied to damp substrates.

Colors

Light Grey, Slate Grey, Mid Grey, Tile Red, Corn, Blue, British Racing Green, Mushroom, Magnolia, Black, White and Clear.

Uses NanoCoat WB is used to provide a protective coating to industrial & warehouse floors subject to light traffic, an oil resistant coating for banded areas, a wall & floor coating in the food & other industries requiring high hygiene standards, and a protective coating in sewerage treatment plants.

- Advantages**
- Improves working environment.
 - Suitable for use in areas where solvents are undesirable.
 - Hardwearing, durable and long lasting.
 - Easily and quickly applied by unskilled labour.
 - Easily cleaned hence reducing maintenance costs.
 - Can be applied to damp substrates.
 - Can be used as a curing agent.
 - Good chemical resistance.
 - Water based.
 - Sewerage resistant.

Chemical Resistance Performance of NanoCoat WB tested by immersion at 20°C against a range of aggressive chemicals.

Acids

Hydrochloric Acid (Conc.)	Fair	Nitric Acid 25%	Good
Sulphuric Acid 50%	Good	Lactic Acid 10%	Good
Acetic Acid 10%	Fair	Citric Acid 20%	Good

Alkalines

Sodium Hydroxide 50%	Good	Ammonia 10%	Good
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Solvents

White Spirit	Good	Methylated Spirit	Good
Xylene	Good	Butanol	Good

Oils

Lubricating Oil	Good	Petrol	Good
Skydrol	Good		

Aqueous Solutions

Sodium Hypochlorite (Bleach)	Good	Sugar Solution (Saturated)	Good
Salt (Sodium Chloride Saturated)	Good	Ammonium Sulphate (10%)	Good

It should be noted that the ability of NanoCoat WB to resist attack is dependent on the temperature and concentration of the chemicals. If in doubt contact Nano Vision technical department.

Properties

Pot Life at 20°C:	2 hour
Initial Hardness:	18-24 hours
Full Cure:	5-7 days
Minimum application temp:	5°C
Maximum application temp:	35°C
Coverage: 5-8 m ² /kg/coat	150 Microns(wet film)
S.G.:	1.30
Bonding Strength:	> 1.5 N/mm ²

Packaging 2kg & 3 kg pack

Storage Store in dry and cool place below 35oC. Protect from direct sunlight.

Shelf life 24 months if store properly in original unopened packaging.



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Instruction for use

Surface preparation:

The surface to be treated should be dry, sound and free from loose materials. New concrete should be at least 28 days old before application. Damaged or worn areas should be repaired using NanoMortar FEP. Any laitance should be removed by physical methods or by acid etching. Should the strength or the surface stability of the concrete base be in doubt, then we recommend a trial patch of NanoCoat WB be applied to assess its suitability. On highly polished/power floated floors, mechanical preparation or acid etching will be necessary.

Mixing:

The base and hardener components of NanoCoat WB should be thoroughly stirred before the two are mixed together. The entire contents of the hardener container should be poured into the base container and the two materials mixed thoroughly at least 3 minutes. The use of a heavy-duty slow speed, flameproof or air driven drill fitted with a mixing paddle is desirable. Mix these components in the quantities supplied taking care to ensure all containers are scraped clean.

Application:

The mixed NanoCoat WB should be applied to the prepared surface using airless spray, brush or lambs wool roller. Depending on the absorbency of the substrate the first coat may be diluted with up to 10% water by weight to help penetration into the substrate. Do not apply the second coat (or the third if needed) until the previous coating is completely dry. Best results are obtained if subsequent applications are made 24 hours later.

Coverage:

The coverage rates depend on the absorption characteristics of the substrate. When applied onto a low absorption and medium roughness surface the coverage rate is approximately as follows. Coating of walls and floors 0.20 kg/m²/coat. (150 micron/coat; minimum 2 coats required)

Cleaning & disposal

NanoCoat WB should be removed from tools and equipment with soapy water after use. Hardened material can only be removed mechanically. Do not dispose off into water or soil but according to local regulations.

Health & safety

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 advice. If swallowed, seek medical attention immediately - do not induce vomiting.