



NanoCoat SB

High performance solvent based epoxy coating

Description

A range of solvent based, chemically resistant floor coating, available in clear and attractive colours, designed to seal, dust proof and protect concrete floors and other surfaces against the ingress of dirt, oil, grease and a variety of chemicals.

Colors:

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

Uses

Suitable for areas subjected to foot and light vehicular traffic such as factories, garage showrooms, dairies, kitchens, workrooms etc. NanoCoat SB equally suitable for walls, may also be used as a sealer on resin based screeds where cleanliness is important or where particularly wet conditions are encountered.

Advantages

- Dusting eliminated along with the associated hazards.
- Improves working environment.
- Pre-weighed pack for simple mixing.
- Hardwearing, durable and long lasting.
- Easily cleaned hence reducing maintenance costs.
- Quickly and easily applied by semi-skilled labor.

Chemical Resistance

Performance of NanoCoat SB 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 SB to resist attack is dependent on the temperature and concentration of the chemicals. If in doubt contact Nano Vision technical department.

Standard compliances

Complies with BS 476, Part 7: 1971 - Class 1

Properties

	20 C°	35 C°
Pot life:	4 hrs	1.5 hrs
Tack free time:	4-6 hrs	2-4 hrs
Time between coats:	6-24 hrs	4-16 hrs
Initial hardness:	24 hrs	18 hrs
Full cure:	7 days	5 days

Wet film thickness(per single coat) : 100 microns

Total dry film thickness(2 coats) : 90 microns

Packaging

2.5 kg & 3.0 kg pack

Storage

Store in dry and cool place below 35°C. 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 SB be applied to assess its suitability. On highly polished/power floated floors, mechanical preparation or acid etching will be necessary.

Steel surface:

Steel substrates should be grit blasted to surface quality SA 2½ (BS 4232: Second quality) and primed with a single coat of NanoPrimer.

Mixing:

The base and hardener components of NanoCoat SB 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. Do not add solvent thinners at any time.

Application:

The mixed NanoCoat SB should be applied to the prepared surface using airless spray, brush or lambs wool roller. Ensure that the area is completely coated and that 'ponding' of the material does not occur. The second coat may be applied as soon as the first coat has initially dried (typically 12 to 18 hours). The time will be dependent on the type of surface and the ambient conditions.

Coverage:

NanoCoat SB : 10 m²/litre @ 100 microns wft per coat
(2 coat application recommended)
NanoPrimer : 5 - 6 m²/litre.

Cleaning & disposal

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

Precautions & Limitations

NanoCoat SB should not be applied onto surfaces known to or are likely to suffer from rising dampness or have a relative humidity greater than 75% as measured in accordance with BS 8203 Appendix A or by Protimeter thermohydrometer.

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.

Fire

NanoCoat SB and NanoSolvent are flammable.