

Solvent Free Epoxy Resin, Non-Slip Floor Coating For Steel Metal or Aluminum Surfaces & Concrete Flooring. High Performance, Chemical Resistance & Protection against Corrosion**For High Lubricate Area, to Prevent Non-Slip Surfaces****Thickness Applied: From 1.50mm to 3.50mm thick**

Product Application: **Epo Bond NS** is medium-viscosity solvent free epoxy resin contains. Offers high hardness, chemical resistance and protection against corrosion. The coating has applied on floor or wall system for warehouses, car park decks, garages, shopping centers, precision industrials, hospitals, food processing industrials, electronic industrials, kitchen area and chemical plants other etc.

Advantage & Properties: The specific advantage offered by solvent free coating. Very good adhesion, the system recommended for concrete can also be applied on other concrete floors or walls, mineral substrates, as stones, bricks, fibre-glass, plaster, metal surface or even tiles and glass.

Ultraviolet Resistance: **Not reflection to eye and no yellowing after 100 hours.**

- ❖ Adhesion is always good on mineral substrates surfacing.
- ❖ Very good flow mechanical properties following optimal cure.
- ❖ Good in no dust from substrate coatings easy to clean, improved visibility.
- ❖ Excellent of chemical resistance, Good on hygienic floor and wall surfacing.
- ❖ Adhesion promoting primers between old with new concrete.
- ❖ Non-toxic, the coating have been cured applied on health floor.

The chemical composition of resin and hardener is such that it is approval for food contact applications in accordance with recommendations made by the Federal German Board of health (Bundesgesundheitsamt)

Mechanical Performance of Properties

Compressive Strength	25°C	[N/mm ²]	72 (± 3)
Tensile Strength	25°C	[N/mm ²]	20 (± 3)
Elongation at Break	25°C	[%]	1.50
Bond Strength	25°C	[N/mm ²]	< 3.20
Flexural Strength	25°C	[N/mm ²]	38 (± 3)
Traffic Cured	25°C	[hour]	> 24
Bonding cured	25°C	[h]	06
Viscosity	25°C	[mPas]	22500
Abrasion Resistance		[mg]	80
Modulus of Elasticity		[N/mm ²]	12000
Service Temperature		[°C]	- 05 °C until Max. 60 °C
Application Temperature		[°C]	Min. 10 °C until Max. 38 °C
Specific Gravity	25°C	[gm/cm ³]	> 1.20-1.30

New Reinforced Concrete & Steel
& Existing Reinforced Concrete & Steel

Surface Preparation
Method of Application

Surface to be repaired or sealed must be clean and sound. Concrete must be free of dust, laitance, sealers, grease and other bond inhibiting contaminants.

Steel surface shall be sand-blasted to SS 2 Standard and de-rust to ST 2 Standard 50mm rich primer is recommended for priming.

New concrete shall be at least of aged 28 days before coating. Old concrete surface must be cleaned of dirt, dust or other contamination with a thorough floor scrubbing.

Apply first layer of **Epo Bond WFC Primer**

Apply Second layer of **Epo Bond NS**, immediately sprinkled silica sand with size of 1.20–3.00 mm onto the wet resin surface

Important Note – the sand it still float on top on wet resin, that using wood roller to roll the sand for penetrate on wet resin #.

After resin coat has been cured, that excess sand is removed (by vacuum up system).

Finally apply third layer **Epo Bond NS**, by brush or roller and screeds exhibit a texture finish, can be kept in spotless hygienic condition and are of attractive appearance. Thickness usually varies from 1.50-3.50mm thick.

Thickness

From 1.50mm until 3.5mm thick, depending of base structure strength

Coverage

Only for Epo Bond NS [Resin] 1.50mm thick, 1.80 until 2.05 kg/m2
Only for Epo Bond NS [Resin] 3.00mm thick, 3.60 until 4.10 kg/m2

Estimating Data

Applied of **Epo Bond WFC Primer** 0.10 to 0.25 kg/m2
 Applied of 1.20-3.00mm Ø Sand 1.50 to 2.50 kg/m2
 Applied of **Epo Bond NS** 1.80 to 4.10 kg/m2

Packing & Size:

10 kg per pack for Part A + B
 25 kg per bag for 1.20-3.00mm Ø Sand

Mixing:

Supplied as three-component system. Mix materials with low speed drill and paddle for approximately Four minutes. Insure a thorough mix. Never mix more material than can be used in thirty (30) minutes. Do not apply Epoxy when ambient or surface temperatures are below 50 °F

Available of Color

Grey, Beige, Green, Blue, Cotta Red & Yellow

Storage

12 months from date of manufacture in original sealed container stored undercover 25 °C, at ambient temperature away from heat, and dry conditions. For clearing equipment, use special solvent liquid.

Examples: Calculation Format for Non-Slip Floor Coating

Products	System	Require of Thickness	Require kg/m2	Unit Rate US\$/kg	Unit Price/m2
Concrete Floor with semi smooth					
Epo Cem WFC Primer	Water Base Primer	0.10mm	0.10		
Epo Bond NS	Solvent Free Non-Slip	0.40mm	0.48		
Sand	1.20-3.00mm Ø Sand	1.20mm	1.92		
Epo Bond NS	Solvent Free Non-Slip	0.80mm	0.96		
Total Thickness		1.50mm			
Cost of Material & Wages Per M2					

Test result from below types of chemicals, based on 1 layer primer "Epo Bond WFC Primer" with 3 layers coat of "Epo Bond NS".

Temperature at: 25 °C
Thickness at: 1.55mm (2.50 kg/m²)
Recommended: A Excellent, Not Effectuated, B Excellent, Slightly Effectuated, C Excellent, Effectuated

Name of Chemical Resistant Test Chart	01 month	06 months	1 year
Nitric Acid 10%	A	A	A
Ethyl Alcohol	A	B	B
Toluene	C	C	C
Petrol	A	A	B
Caustic Soda 30%	A	A	A
Acetic Acid 5%	A	B	C
Sulphuric Acid 20%	A	A	A
Sewage Sludge	A	A	A
Salt Water	A	A	A
Ammonia Solution 15%	A	A	A
Phosphoric Acid 10%	A	A	A
Bleach 15% Cl ₂	A	A	B
Sea Water 100% (High ph)	A	A	A
Fuel Oil	A	A	A
Oxalic Acid 10%	A	A	A

Handling Precautions

Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets and the brochure "Hygienic Precautions for Handling Plastic Products"

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