



# NanoBitucoat R

Rubberized, bitumen emulsion

**Description** NanoBitucoat R is an emulsified rubber modified bitumen coating, which dries to form a tough, seamless, flexible vapor proof protective coating.

**Uses**

- NanoBitucoat R is applied to protect concrete surfaces subject to attack from soil acid and salty water before backfilled such as basements and foundations, retaining walls.
- Bond breaker coating for concrete.
- As a adhesive for insulation materials.
- As a waterproofing of roof slabs

**Features/Benifts**

- Single component, easy to apply
- Low labor cost.
- Environmentally friendly, non-flammable, asbestos free and can be used in confined spaces.
- Excellent service life - resistant to chloride and sulphate ions.
- Good flexibility and very good adhesion on all mineral substrates.
- Seamless/joint free
- Adheres to concrete, metal, wood, cork, etc.
- Can be applied on damp substrates
- Can be used as a curing compound on fresh concrete.
- Dual advantage of curing as well as protection of concrete

**Standards compliance** NanoBitucoat R conforms to the requirement of ASTM D1227. NanoBitucoat R complies with concrete curing requirements of ASTM C309-93.

**Properties**

|   |                            |
|---|----------------------------|
| Bitumen content:  | 55%±5%                     |
| Color:  | Dark Brown                 |
| Form:   | Thixotropic viscous liquid |
| Specific gravity:   | 1.02 ±0.02                 |
| Rubber Content:   | 10%                        |
| Elongation:   | 30%                        |
| Time between coats:   | Minimum 2 hours            |
| Chemical resistance:<br>(Test results with some common chemicals) |                            |
| Potable water -   | Resistant                  |
| Sea water -   | Resistant                  |
| Ground water -  | Resistant                  |

**Packaging** 18 kg pails, 200 kg drums.

**Storage** Store in dry and cool place below 35°C. Protect from direct sunlight.

**Shelf life** 12 months if stored properly in original unopened packaging.

**Instruction for use**

**Surface preparation:**  
Surfaces to be coated must be sound, clean and free of oil or grease. Any oil or grease contamination should be removed with a proprietary chemical degreaser. If the surface is dusty, it should be primed with a coat of NanoBitucoat R, diluted 20% quantity of cool, clean water and allowed to dry.

**Priming:**

It is highly recommended to apply a priming coat prior to the application of the NanoBitucoat R coating on the substrate. The primer can be prepared at site by diluting NanoBitucoat R with 20% water and applying this diluted coat as the primer. For very dry and porous substrates apply two coats of this primer. The primer can be applied to damp or freshly cast concrete surfaces also. However, it should not be applied on waterlogged or flowing water areas. Further coats shall be applied only after the primer coat dries off completely. In case of delay in application of the top coat for more than 24 hours, a fresh coat of primer shall be re-applied.



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**Application:**

Stir the contents of the drum thoroughly before application to remove all sediments. Depending on the dry film thickness required, apply the rubberized bitumen coating @1 – 4m<sup>2</sup>/lt./coat. On vertical areas, it is recommended to apply the coating in multiple layers in order to avoid sagging of the heavy bodied coating. Subsequent coats shall be applied only after the previous coat dries off completely and shall be applied at right angles to the previous coat. Clean dry sand may be broadcasted onto the wet coating to provide a key for the subsequent coats and achieve a greater dry film thickness. The coating should be applied and finished up to the DPC level. If a plaster or cement render is to be applied on the bitumen coated surface, clean dry sand shall be broadcasted on to the coating whilst it is still wet. Leave the coating for curing for a minimum period of 48 hours before applying any protection board or backfilling. Care shall be taken to ensure that the first coat is not punctured during the application of the second coat. However, if the coating is damaged, the area can be readily over coated provided the surface preparation is done properly.

**Curing:** 7 days

**Coverage:**

General use: 0.5 kg/m<sup>2</sup> (Depends on substrate condition)

**Cleaning & disposal**

NanoBitucoat R may be removed from tools and equipment with water when it is wet. On drying may be removed with NanoSolvent. Do not dispose off in to water or soil but according to local regulations.

**Precautions /limitations**

NanoBitucoat R is not flammable. NanoSolvent is flammable. Ensure adequate ventilation. Do not use near a naked flame and do not smoke during use.

**Health & safety**

NanoBitucoat R contains bituminous material. Possible risk of irreversible effects in contact with skin. Wear suitable protective clothing , gloves and eye / face protection. Barrier creams provide additional skin protection. Should accidental skin contact occur, remove immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately- do not induce vomiting.