



TECHNICAL DATASHEET 511 BitumSeal

DESCRIPTION:

NeoSeal® 511 BitumSeal is a water based, cold applied, black colour highly elastomeric monolithic protective coating. This unique system is ready to use acrylic modified bituminous liquid membrane. It forms a tough yet highly flexible and durable waterproofing coating upon drying. It is highly thixotropic emulsion which can be easily applied to any thickness by roller or squeegee.

TYPICAL APPLICATIONS:

- Commonly used as a protective and waterproofing coating for concrete foundations, retention wall, retaining structure below ground but above the water table level.
- It used as a moisture vapor barrier on block works and concrete surfaces prior to cladding.
- Waterproofing of basements, side walls, toilets, water tanks, swimming pool and various wet area like channels, dams, water tower, tunnels etc.

FEATURES / ADVANTAGES:

- Waterproofing – High film build up provides excellent water resistance
- Elastomeric – Excellent flexibility and elongation properties - can easily accommodate all normal building movements.
- Seamless – Can be applied to complex shapes to form a seamless and highly durable water proofing membrane.
- Adhesion – Adheres firmly to most of building surfaces including concrete, brick etc. both horizontal and vertical surfaces.
- Water based – Easy cleaning of tools and brushes by water.
- Easy to apply – Suitable consistency for easy application by brush, roller or squeegee
- Environmental – Non-toxic, drinking water safe, green product.

DIRECTIONS FOR USE:

1. Surface preparation:

Prepare the surface thoroughly by cleaning, washing and removing dust, dirt, oil, grease and loose particles using wire brush and water jet. Break the weak portion of concrete surface near the area of repair and clean with water jet. The application temperature should be between 5° C to 55° C.

2. Crack Filling:

Cracks of size up to 5mm should be filled by NeoSeal® 503 Crack Filler paste. Cracks wider than 5 mm should be filled by applying NeoSeal® 502 Latex Prime modified mortar slurry using putty blade properly. Let it dry for 24 hrs.

3. Priming:

Use NeoSeal® 511 BitumSeal as a self-priming by diluting it with water in 1:2 ratio (1 part BitumSeal : 2 part water). Apply primer coat by a brush, roller or airless spray and let it air dry. Primer coat penetrates into the concrete pores and seals the substrate. It also acts as an adhesion promoter for further coatings.

NeoSeal Adhesive Pvt. Ltd.

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4. Application:

- Stir product well before use.
- Apply a layer of coats by brush or roller and let it dry for 8-10 hrs.
- After that apply second coat at right angles using brush or roller and allow it to dry for 24 hrs.
- Sprinkle sand at 200 gm/m² over the final coating when the surface is still tacky to facilitate plastering or further construction.
- Allow final curing time of 36 hrs. before carrying out any further work.
- Conduct ponding test after 7 days of curing at ambient temperature.

TECHNICAL INFORMATION:

PROPERTIES	RESULTS
Appearance	Black thick paste
Product type	Styrene Acrylic and Bituminous emulsion
Solid Content	50 ± 2% (w/w)
pH value	8-10
Sp. gravity at 27 ^o C	0.94 ± 0.02 gm/ml
Viscosity	50,000 to 80,000 cP
Tensile Strength	0.5 – 0.6 N/mm ²
Elongation	800%
Tack Free Time	10 – 12 Hours
Application Temperature	5 ^o C to 55 ^o C

COVERAGE:

For 1st coat 40 - 45 sq. ft. per Ltr. and for 2nd coat 45 - 50 sq. ft. per Ltr. For two coats 18-22 sq. ft. and DFT about 350 – 450 microns. Coverage may vary depending on the texture and porosity of the application surface.

PACKING:

1Ltr., 5Ltr., 20Ltr. & 50Ltr.

SHELF LIFE AND STORAGE:

Best before 12 months from the date of manufacturing when in sealed pack and stored under proper condition. Store in a cool and dry place between 5^oC to 30^oC in closed condition and away from direct sunlight.

PRECAUTIONS AND LIMITATIONS: Follow recommended application strictly.

HEALTH AND SAFETY PRECAUTIONS: Wear suitable protective clothing, gloves and eye protection during mixing and application. In case of contact with skin, rinse with plenty of clean water and then cleanse with soap water. In case of contact with eyes, immediately rinse with plenty of clean water and take medical advice.

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