



TECHNICAL DATASHEET 515 NEO HIGH-FLEX

Heavy Duty Polymer Modified

DESCRIPTION:

NeoSeal® 515 NEO HIGH-FLEX is a two-component cementitious & acrylic polymer based flexible waterproofing as well as heavy duty protective coating for masonry surfaces. It is made up from the best quality Portland cement, properly selected & graded aggregates, additives & acrylic nano emulsion polymer as a binder.

It is applied to waterproof and protect concrete and similar structures. Specially designed for swimming pools, water tanks, submerged tunnels, sumps, bridge decks, marbles, granites retaining walls, pile heads and a wide variety of extreme service class structures since it forms excellent elastomeric, tough, waterproof & protective layer over the substrate.

AREA OF APPLICATION:

- Bathrooms and Toilets
- Water tanks, Storage tanks and swimming pools
- Basements
- Faces of dam walls
- Basins
- Balconies and terraces
- Concrete structures like pillars and beams for road and railway bridges
- Cooling towers
- Underpasses
- Water retaining walls

TECHNICAL SPECIFICATIONS:

No	Properties	Result
1	Nature & Type	Two Component (1-part polymer liquid & 1.4-part powder)
2	Appearance	Milky white and grey after mixing
3	Mixing Ratio	1:1.4 (Liquid: Powder)
4	Mix Appearance	Free flowing slurry turns grey upon curing.
5	Pot Life at 30°C	30 Min.
6	Sp. Gravity at 30°C	1.70 ± 0.05 gm/ml
7	Tensile Strength	> 1.2 N/mm ²
8	Elongation (%)	Min 120% at DFT of 60 mm
9	Water Vapor Permeability	16 gm / Sq. Meter
10	Resistance to positive water pressure	5 Bar
11	Application Temperature	Above 5°C
12	Adhesion to Concrete	Excellent

NeoSeal Adhesive Pvt. Ltd.

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FEATURES & BENEFITS:

- Flexibility – Provides a flexible & low permeable coating.
- Adhesion – Excellent adhesion to concrete, natural and artificial stone.
- Diffusion – Excellent resistance to chloride ion diffusion and carbon dioxide.
- Low temperature resistant – Resistance to freeze-thaw cycles and de-icing salts.
- Carbonation – Prevents carbonation of cement concrete.
- Water permeability – Excellent resistance to ingress of water.
- Slip resistant – Provides slip resistant coating.
- Waterproof – Waterproof for concrete structures.

METHOD OF APPLICATION:

1. Surface Preparation:

The application surface must be thoroughly prepared by mechanical means. Remove dirt, dust & loose particles etc. by air compressor or water jet. Oil & grease must be removed using degreasing solvents. Any damaged surface must be repaired by NeoSeal® 503 Crack Filler Paste OR NeoSeal® URP modified repair mortar slurry.

2. Mixing:

Shake well the liquid container to a homogenous milky colour. Transfer the entire quantity of liquid component into a mixing vessel, gradually start addition the powder component under constant mixing using motor stirrer at slow speed at 250 – 300 rpm. Mix for approx. 5 – 6 minutes until homogeneous & uniform free flowing slurry formed.

3. Priming coat:

- The application area must be pre-wetted thoroughly with water and brought to a touch dry state. Use the stiff nylon brush for the application. For the first coat work well into the substrate, to ensure that all small undulations are completely filled with the coating.
- Apply second coat after 6 to 8 hrs. in a direction perpendicular to the first coat. Complete the application and leave to air cure for 2 days.
- To protect the surface from the effect of direct sun light, place a moist hessian cloth on an application area. For the indoor application leave the coating area without water for at least 2 days.
- In new bathrooms, Neo High-Flex must be applied all over the sunken slab portion and upwards over the masonry walls up to a height of 6-7 feet to cover the splash zone of shower to ensure complete waterproofing.
- **Blinding Coverage:**
Apply slurry coat of mixed material for two coats at a coverage rate of 1.4 kg / sq. meter over the set concrete slab by a masonry brush.
- **Concrete slabs or roof slabs:**
Two coats of mixed slurry to be applied to the set concrete at 1.5 – 2 kg / sq. meter by a masonry brush or roller.

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- **Pile Heads:**

Two coats of mixed slurry to be applied on to the pile head at 0.80 kg / sq. meter first coat and about 1.5 kg / sq. meter second coat either by a masonry brush or by appropriate power spray equipment.

- **Water tanks and Swimming pools:**

Two coats of Neo High-Flex applied at 1.6 kg / sq. meter each coat by a masonry brush.

4. **Precaution:**

- Mix the entire quantity of both the components at once.
- Do not use external powder with the liquid other than the powder offered by us, it will affect the performance.
- Do not add water for dilution.
- Do not flood or over expose the treated surface to water until it is completely cured.

COVERAGE:

Coverage depends upon the nature of the surface to be applied. But on average, smooth surface will give approx. 6 - 8 sq. ft. per kg for 2 coats. DFT about 900 – 1000 microns.

PACKAGING SIZE:

2.4 kg., 12 Kg., 48 Kg.

SHELF LIFE AND STORAGE:

12 months from the date of manufacturing in unopened condition when in sealed pack and stored under proper condition. Store in a cool & dry place.

HEALTH & SAFETY PRECASUTIONS:

- Skin Contact: Wash skin with soap & water. Remove contaminated clothes.
- On eye contact: Immediately splash eyes with plenty of water. Consult Physician if irritation persists.
- Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.

WARRANTY:

The above information given is based on our knowledge and performance of the material. Every precaution is taken in the manufacture of the product and our responsibility is limited to the quality of supplies with no guarantee of results in the field, as manufacturer has no control over site conditions or execution of work.

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DISCLAIMER:

The product information & application details given by the company & its agents have been provided only as a general guideline for usage. No guarantee / warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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