

NIPO R-Pruf Root Inhibitor

DESCRIPTION

The environmentally friendly one-part liquid applied *Nipo R-Pruf* is a **water**-borne product which is effective in CONSTRAINING root directional growth. It works in areas where root traps and deflectors do not.

Its colour is brownish black and dries to a tough flexible dark black coating.

It can also be used as a 2-component solution with a mixing ratio of equal parts to most cement mortar.

RECOMMENDED USES

- When applied to specified thickness, *Nipo R-Pruf* is an effective Root Inhibitor
- Can be added directly to cement mortar for the purpose of constructing structures such as planter box
- It will slow down and ultimately stops the length growth of the roots
- The influence of *Nipo R-Pruf* on the root growth is localized. Root sprouts in the immediate area which has no contact with the *Nipo R-Pruf* remain healthy and unaffected
- Combined features of the barrier, the site, and barrier installation and maintenance are critical to effectiveness of *Nipo R-Pruf*

ADVANTAGES

- Protects construction materials from undesirable root penetration
- No damage to plants and yet providing long term protection
- Remains effective under harsh pressure

- Heat resistance
- Low vapour pressure
- Economical
- Seamless and Easy Application

APPLICATION – as a Liquid Applied Coating

Surface Preparation

Ensure surface is clean from dust, oil, rust, grease, loose materials, moss etc. Surface should be dry for homogeneous material quality.

New concrete must be cured for at least 28 days.

Treat all expansion joints, pipe joints and down pipes with *NipoSeal Bitu Sealing Compound*.

Priming

Apply *NipoPrime* in a continuous application. Allow primer to dry

Required Drying Time : 1 to 2 hours
Required Curing Time : 24 hours

Where substrate is old and porous, prime twice.

Coating

Apply the first coat of *Nipo R-Pruf* at right angle to the *NipoPrime* coat after 24 hours. Allow to dry. Exert some force during the application of this coat.

Nipo GlassFibre Netting, material reinforcement, is Optional. Where required, lay the *Nipo GlassFibre Netting* between the first and second coat.

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Apply subsequent *Nipo R-Pruf* Coats. Ensure each coat is dry-to-touch prior to application of subsequent coats.

Each Coat must cover all surfaces requiring protection against root growth.

Protect from rain and frost until cured. Materials will be washed off when not fully cured.

The complete system, when dry, must achieve a minimum thickness of 1 mm.

Protect membrane from Puncture/Tear/Rain before/during any Backfill/Screed.

Drying and Curing Time indicated herewith is dependent on temperature and humidity. Estimates are provided.

PLEASE APPLY EACH COAT THINLY. THICK COAT EXCEEDING 750 MICRON WILL INCREASE DRYING TIME BY SEVERAL DAYS.

Follow-On :

Screeding (Optional) : Follow-on screed must be at least 50 mm thick to ensure good bonding to material. Where necessary, apply a diluted coat of *Nipo R-Pruf* and broadcast sand prior to screeding.

Architecture Designs : Upon completion of the *Nipo R-Pruf* System, please proceed to continue with the required Architectural Specifications.

Drainage : Follow good drainage practice by creating a slope to drain a minimum of 10mm per running metre.

APPLICATION – as a 2-component bitumen/cement mix

When *Nipo R-Pruf* is incorporated into cement, the bitumen/mortar mix becomes one of the most

important mechanisms for performance improvement of mortar for root inhibition.

This intended bitumen/mortar mix should never be part of the structural requirement except for root inhibition.

Ensure all structural requirements are met prior to screeding.

If required, check that the formwork is slightly lower on one side so rainwater can run away. If near a home, slope away from the house.

Surface Preparation

Ensure surface is clean from dust, oil, rust, grease, loose materials, moss etc. Surface should be dry for homogeneous material quality.

Place formwork boards around the area and use nails to attach the boards to the pegs.

If required, use steel reinforcing mesh inside the formwork supported off the ground on bar chairs suitable for the thickness of the concrete. This will help to prevent the bitumen/mortar mix from cracking from temperature, tree roots, and earth movement

To prepare for indoor surfaces, ensure proper application of a suitable waterproofing membrane: *NipoPruf Bituminous Elastomeric*. Then apply metal lath in the opposite direction of the bitumen felt so that the two materials cross. Apply the metal lath with galvanized staples (to prevent rusting) to the entire floor.

Check weather prior to laying the bitumen/mortar mix. You will want at least a few days of dry weather after the bitumen/mortar mix is laid to ensure proper drying.

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Mixing Ratio

NEVER dilute with water or any other liquids.

Cement/Sand	Nipo R-Pruf
1.0 part	1.0 part

Use a tamping board to smooth the surface of the bitumen/mortar mix. Then use a shovel, wooden float, or steel float to create your desired finish look on the bitumen/mortar mix

Protect from rain for a minimum of 30 days, more if the weather is colder.

Remove framework.

COVERAGE

Liquid Application : For 0.5kg of *NIPO R-PRUF*, it can cover about 1m² per coat. Hence, a 20L pail can covers about 50m² per coat.

PACKING

NIPO R-PRUF comes in 20L pail and 200L drum.

NOTES

Actual Measurement may vary due to the condition of the substrate. This information is only a guide.

SPECIALIST CONSULTATION

Always consult a qualified Specialist with regards to the choice of plants, layout of the garden, structural design etc.

The overall decision on the choice of the plants at the site is crucial for a successful application.

Botany is the scientific study of plant life.

Floriculture is the study of flowers.

Horticulture is the art or practice of garden cultivation and management.

Arboriculture is the cultivation of trees and shrubs.

Olericulture is the cultivation of vegetables.

Viticulture is the cultivation of grapevines.

TYPICAL PROPERTIES	
<i>Solid Content</i>	Minimum 65%
<i>Active Ingredient</i>	2-(4-chloro-2-methylphenoxy)-propionic acid polyglycol ester
<i>Crack Bridging</i>	No cracks at 2mm and after 10 cycles of 1mm stretching/closing
<i>Water Penetration</i>	Zero, No water penetration
<i>Application Rate</i> *	0.60 to 0.80 kg/m ² per coat
<i>Heat Resistance</i>	No sagging, blistering or slipping
<i>Water Resistance</i>	No dispersion, blistering or re-emulsification
<i>Fire Resistance</i>	No combustion or rundown, coating charred in place

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