



Dr. Fixit Newcoat Cool

HEAT REFLECTIVE WATERPROOF COATING FOR ROOFS & TERRACES

Description

Dr. Fixit Newcoat cool is a heat reducing & 'Energy Saving' acrylic waterproofing coating providing a seamless waterproof barrier that can withstand expansion and contraction movements due to heat build-up on the roof surfaces. It helps in reduction of energy usages by less heat transfer into buildings thus keeps the interiors cool. The coating serves the dual purpose of thermal reduction & with additional waterproofing protection.

Dr. Fixit Newcoat Cool has excellent crack bridging ability to prevent water leakages through the hairline cracks developed on the roof surfaces. It provides solution to building owners roof maintenance by extending the roof service life, and improve the building's aesthetics.

Typical Application

- Building Roofs / Terraces - Flat & Slope.
- Over existing cementitious waterproofing treatments like sound brick-bat coba, concrete screed, etc

Features

- SRI Value - 107 (ASTM E 1980), re-radiates heat back to atmosphere
- UV and IR resistant - resistance to UV & IR emission protects coating from damage and also reduces heat conductivity.
- Water proofing - Excellent water resistance.
- Resilience & crack bridging - Forms highly elastic, tough & resilient coating that can bridge cracks up to 2 mm.
- Abrasion resistant - Non-slip and suitable for light foot traffic.
- Long-term durability - Excellent UV resistance and all weather proof.
- Application advantage - No need to remove existing sound Brick Bat Coba / concrete screed.
- Energy saving - Low heat transfer into building.
- Non-Toxic water based system - eco friendly.
- Substrate temperature reduction up to 12°C**.

Packaging

4 & 20 litres

Method of Application

SURFACE PREPARATION

- Prepare the surface thoroughly by cleaning, washing and removing dust, dirt, oil, grease and loose particles.
- Ensure that the roof slope is a minimum of 1 in 100 to enable water run off.
- In existing old terraces such as brick-bat-coba or screeds, the substrate must be checked for its soundness. Damaged or hollow portions, sharp edges, etc. must be cut and repaired with a polymer-modified screed. Surface cracks must be filled with Dr. Fixit Crack-X or polymer-modified mortar in case of wider cracks.
- Bitumen based waterproofing treatments must be completely removed by mechanical scarification or by any other effective mechanical means.

APPLICATION

- Dilute 2 parts of Dr. Fixit Primeseal with 1 one part of water. This dilution will cover 7 to 8 sq.mt. Allow it to dry for 6 to 8 hrs. Apply 1st coat of Dr. Fixit Newcoat at the rate of 2 sq. mt. per litre (Make grid lines of 1 mtr by 1 mtr on the surface with chalk for measuring application coat of 2 sq. mt.)
- An open woven glass fibre mesh of 2.5 mm x 2.5 mm must be sandwiched between the first and second coat. While the 1st coat is still wet, place the fibre mesh on it.

- Dr. Fixit Newcoat to be applied with brush or roller in one direction only. Check to see no void surface is left untreated / uncoated. Allow the first coat to dry for 6-8 hours.
- Apply second coat of Dr. Fixit Newcoat with the same application coverage. Application direction of second coat should be perpendicular to that of the first coat. Check to see no void surface is left uncoated with second coat. Allow second coat to dry for 6-8 hours.
- Apply third coat & Final coat of Dr. Fixit Newcoat Cool as reflective coat with same application coverage rate an application direction that is perpendicular to that of the second coat. Check to see no void surface is left untreated / uncoated. All coats should be applied in direction perpendicular to each other.
- The correct consumption of material will deliver a total DFT 1 mm. Drying time between coats will be 6 to 8 Hrs.
- Allow the system to air cure for 7 days.

MAINTENANCE & RECOATING OF DR. FIXIT NEWCOAT COOL

- Over a period of time or some years, if Dr. Fixit Newcoat Cool has developed cracks on exposure to weathering or extreme temperature variations, it is extremely easy to recoat over it again, with only one coat of application of Dr. Fixit Newcoat Cool. Cracks if any, can be treated by placing a fibre mesh over a recoat, while it is still wet. After this dries, it would need an additional coat over the mesh to strengthen the area. In rest of the area where there are no cracks or damage on the surface, you can just go in for only one coat of Dr. Fixit Newcoat Cool, after properly sanding the surface.

POST APPLICATION

- Conduct ponding test by filling water up to 50 mm height for 48 hours post air curing to ensure leak-free terrace.

Precautions & Limitations

- All corners, gaps, joints, protrusions & outlets shall be coated with two extra coats.
- Do not apply during rains; substrate MUST be in SSD condition for application of primer.
- The product is designed only for foot traffic and not vehicular or movement of machinery or equipment.
- Do not apply Dr. Fixit Newcoat Cool over expansion or moving joints.
- To achieve the full proof waterproofing, parapet walls should be covered with Dr. Fixit Raincoat.
- Never dilute Dr. Fixit Newcoat Cool with water for ease of application.
- Protect from rain and frost for 48 hours when apply at the recommended spread rate.
- All material must be thoroughly cross-mix to ensure tint uniformity.
- Practical spreading rates will vary from quoted theoretical figures depending on substrate porosity, surface roughness, overspray losses, application methods and environmental conditions.
- Do not apply if the surface temperature is greater than 40°C or below 10°C, or likely to fall below 10°C during the application or drying period.
- Keep the material in close when not in use & always be stored in a cool place.
- Mix with a power assisted mechanical mixer before use. Mix until the coating is smooth and consistent.

Preventative Maintenance

- Remove all debris (such as tree limbs, glass, bolts, nails, screws, metal shavings, plants etc. or and any other material that may promote punctures or cuts of the system).
- Provide proper drainage. Keep the roof surface clean of leaves, paper and accumulated dirt at drain areas to avoid clogged drains.
- Coated surface must be inspected and cleaned bi-annually to maintain overall reflectivity properties, this will help maintain your overall aesthetic appearance and preserve your Newcoat Cool coating due to environmental factors (such as accumulation of dirt, growth of mold, mildew or algae). Excessive scrubbing should be avoided.



- Suggested to apply one coat of Dr. Fixit Newcoat Cool after the period of 5 years to maintain the reflective properties of coating.

Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Nature		Single Component Liquid
Solid content		57
Elongation,%	ASTM D 412	100
Dry film thickness (DFT)		1 mm
Tensile strength N/mm ²	ASTM D 412	1.4
Pull off Adhesion N/mm ²	ASTM D 4541	1
Accelerated weathering (2000 hrs UV exposure)	ASTM D 4587	Passes
Algae & fungal resistance		Excellent
Solar Reflectance Index	ASTM E 1980	107
Crack Bridging Index	ASNZ- 4548	2 mm passes

Theoretical Coverage

2 sq m per litre per coat

*Coverage may vary depending upon the texture and porosity of the surface.

**Comparative thermal performance of Newcoat Cool on roofing. Temperatures recorded from 1 Pm to 3 pm of roof surface recorded with the aid of laser guided infrared non contact thermometer.

Shelf life

- Shelf life is 24 months from the date of manufacturing in unopened condition.
- Store in a cool & dry place

Health & Safety

- 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: It is based on Water Based Coating system, however, seek medical help.

Other Products Categories available

Dr. Fixit brings you the widest range of Construction Chemicals



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