

Roof KOOL & SEAL

WATERPROOF ROOF COATING



SCIENTIFIC WATERPROOFING SOLUTIONS



Features & Benefits



Usability

Single component, user friendly waterborne product – brushable or suitable for roller application



Self-Priming

Can be used as primer on dilution with water as recommended



Water permeability

Remarkable resistance towards ingress of water



Adhesion

Strong adhesion to masonry surfaces, breathable coating



Flexibility

Elongates with substrates to prevent cracking up to 2-3 mm



Mechanical Strength

Suitable for foot traffic on roof area



Heat Reflectance

Outstanding whiteness after curing reflects heat, providing cooling effect on the construction



Economical

Can be re-coated for repairing /maintenance purpose



Non-toxic

Non-toxic with low VOC



Anti-carbonation

Reduces carbon dioxide and chloride ion diffusion thus protecting rebars against corrosion

Product Description

HS Roof Kool & Seal is a fibre reinforced liquid applied elastomeric waterproofing membrane, impregnated with nano- fibre. The product is specially formulated with PU-Acrylic Hybrid Polymer and is meant for a dual effect of waterproofing & heat reduction.

The product complies with ASTM D 6083 standard specification for roofing & ASTM E 1980 for solar reflectance.

Application Areas

HS Roof Kool & Seal can be used for waterproofing of:

- Building roofs & terraces
- Parapets, sunshades, and exterior vertical walls
- On existing IPS, sound Brick-Bat Coba or cementitious screed.

Technical Information

Properties	Result	
Solid Content (W/S%)	60 ± 1.5	ASTM D 1644
Density (gm/cc)	1.30 ± 0.05	ASTM D 1475
% Elongation	300	ASTM D2370
Tensile Strength N/mm ²	2.8	ASTM D 2370
Tear Strength KN/m	25	ASTM D624
Water Swelling	Passes	ASTM D471
Pull off adhesion N/mm ²	2.80	ASTM D 4541
Fungi Resistance	<10 cfu/g	ASTM G21
Crack Bridging at Low Temperature (5°C)	2.5 mm	ASTM C 1305
Permeance	Passes	ASTM D 1653
Solar Reflectance Index	107	ASTM E 1980
Accelerated Weathering 1000 h	No cracking or blistering	ASTM D 4798

Notes :

* Allow minimum 48 hours before subjecting the painted surface to service.

* Do not apply during rain, fog or mist or when the temperature falls below 10°C

Health & Safety : Please refer to the separate Safety Data Sheet available with detailed information

Shelf Life/Storage

In unopened, undamaged original container, protected from direct sunlight and frost at temperatures at +1°C to +35°C, shelf life is at-least 12 months from the date of manufacture. It is always advised to keep the materials away from direct sunlight for a prolonged period of time.

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Safety Instructions



Safety Precautions

Accidental splashes onto skin must be washed off with water and soap. In contact with eyes or mucous membrane, rinse with clean warm water and seek medical attention without delay



Ecology

Do not dispose of into water or soil, but it is advisable to do it as per local regulations



Toxicity
Non Toxic



Transport
Non Hazardous

Method of Application

Surface Preparation

- The surface to be applied should be clean & sound, free from any kind of contamination, dirt, tar/bitumen coating etc. Thoroughly wire brush the surface & clean the dust by air compressor or by water jetting.
- Oil & grease must be removed using degreasing solvents.
- All cracks at parapets, corner joints and roof surfaces should be taken care of minutely. All types of plumbing leaks must be repaired.
- Any damaged surface must be repaired by using crack fillers or polymer modified repair mortar using ADVANCED LATEX PLUS.
- In case of horizontal application - suitable sloping must be created if not already available.

Application

Purpose	Horizontal Waterproofing				
Product	Stage	Dilution	Application Tool	Inter-coat Period	Forced Coverage* (Composite system)
HS Roof Kool & Seal	Self-priming	50% with potable water	Hard Brush /Roller	3 - 4 Hrs	1.0-1.1 Sq. Mtr/Litre (for 3 Coats application)
	Waterproofing 1st Coat	Undiluted		4 - 6 Hrs	
	Waterproofing 2nd Coat	Undiluted		4 - 6 Hrs	

The cured applied system shall achieve a total dry film thickness of 450-500 microns.

Purpose	Vertical Waterproofing				
Product	Stage	Dilution	Application Tool	Inter-coat Period	Forced Coverage* (Composite system)
HS Roof Kool & Seal	Self-priming	50% with potable water	Hard Brush /Roller	3 - 4 Hrs	1.65-1.85 Sq. Mtr/Litre (for 2 Coats application)
	Waterproofing 1st Coat	Undiluted		4 - 6 Hrs	

*Coverage may vary depending upon several conditions, like nature & finish of the surface, porosity, ambience temperature and humidity during application, tools used, applicator's efficiency etc.

Usage Precautions

- Rising damp areas with existing structural defects needs to be rectified first before application.
- Must be protected from direct sunlight, raining or extreme weather condition at green stage of application.
- Horizontal application shall be prevented from maltreatment which may cause perforation of the membrane.
- End to end application, in-stead of part application, is always recommended for best results.

Version No: BPP1/01/2024. Please note that this data sheet supersedes all previous versions.

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