

**Technical Data Sheet**

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VER : 01

JEMKOOL 555

# JEMKOOL 555

## 1K PUD hybrid based flexible Roof Cooling & Waterproofing.

**Product Description** JEMKOOL 555 is one-component high build PU hybrid based flexible Roof Cooling and Waterproofing.

**Where to Use**

Heat Proofing & Waterproofing of roofs (cement based as well as metal roof substrates).

Heat Proof & Waterproofing coating for plastered walls.

Weather Roofing over old refurbished roof.



**Characteristics/ Advantages**

- **SRI Value 122**
- Structure/ building remains cool even during peak summer.
- Reduce air-conditioned and humidification electricity cost drastically upto 40%
- Reduction of roof heat up to 20° C.
- Reflects 90% of IR rays and 85% of UV rays.
- Prevents formation of cracks and ageing of buildings due to heat, thus extends the . Life of the buildings for a longer period
- You can walk over the coated surface comfortably. Rooms remain cool and you will not feel summer inside
- Can be applied on any type of surfaces like Asbestos, GI roof, aluminum, plastic,
- Keeps dry in monsoon and cool in summer.
- Eco-Friendly and non-hazardous Green product.
- Highly flexible and UV resistant
- Good crack Bridging capability reinforced with Micro fibers

**Appearance / Colour** White Liquid (Can be tinted to various colours)

**Packaging** 1,5,20 Kgs

**Storage Conditions Shelf Life** 12 months from date of production if stored in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C.

**Chemical Base** Polyurethane dispersion and special additives

**Density** ~1.2 to 1.3 g/cc



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## Application Details

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**Consumption / Dosage** JEMKOOL 555~25 sft per lt @ 150–200 microns thickness in 2 coats

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## Substrate Quality

Substrate must be sound and of sufficient compressive

The substrate can be damp but must be free of standing water and free of all contaminants such as oil, grease, coatings and surface treatments etc. If in doubt, apply a test area first

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## Substrate Preparation

### Concrete:

Substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.

Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate Jemkon products.

High spots can be removed by grinding.

All dust & loose material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

### Metal Roofs:

Remove oil, grease & other contaminants preferably by using degreasing solvent. Remove rust by blast cleaning, if not possible by using mechanical tools along with manual chipping & wire brushing

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**Substrate Temperature** +10°C min. / +35°C max.

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## Mixing

Single Component. Stir the material to remove any settling.

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## Application Process & Tools

Apply JEMKOOL 555 onto the primed surface and spread evenly with Good quality sponge roller, brush or spray to obtain an even layer.

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## Recommended Undercoats & overcoats

Primer : JEMPRIME 71 /Jemproof 91 (optional)  
Top coat: JEMKOOL 555 / JEMKOOL 666

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## Cleaning of Tools

Clean all tools and application equipment with clean water immediately after use.

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**Potlife**

Substrate temperature	Waiting time	
	Minimum	Maximum
+25°C	8 hours	-

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**Waiting Time /  
Over coating**

Temperatures	Time
+25°C	8- 12 HOURS

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**Curing Details**

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**Applied Product  
ready for use**

Substrate temperature	Waiting time	
	Minimum	Maximum
+25°C	24 hours	-

Note: Times are approximate and will be affected by changing Ambient and substrate conditions.

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**Cleaning/  
Maintenance**

Spillage of any kind should be cleaned quickly.  
Use mild detergent & water to clean the coating regularly.  
Scrubbing can be done by using soft bristles

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**Value Base**

All technical data stated in this Technical Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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**Health and Safety**

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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**Legal Notes**

The information, and, in particular, the recommendations relating to the application and end-use of Jemkon's products, are given in good faith based on Jemkon's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Jemkon's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Jemkon reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Technical Data Sheet for the product concerned, copies of which will be supplied on request.

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