

Technical Data Sheet

JAZEERA COOL ROOF

JA-14011

Description:

A water borne elastomeric waterproof and solar reflector coating for roofs, based on 100% acrylic polymer, specially designed for heat insulation by solar reflection technology, which decreases interior temperature and energy consumption with extreme waterproofing properties.

Recommended Use:

As waterproofing and solar reflector on horizontal and slope variety roofs of steel, galvanised steel, concrete, cement tiles, polyurethane foam and bituminous surfaces, for steel structures, warehouses, commercial buildings, residential buildings and service facilities.

Characteristics:

- Exceptional sun rays reflection which reduces indoor temperatures and electricity consumption.
- Excellent waterproofing ability.
- Superior resistance to dirt-up, which keeps the surface clean and has a high degree of solar reflection.
- Excellent resistance to mildew growth.
- Excellent resistance to harsh Middle East weather conditions.
- Excellent resistance to UV.
- High flexibility and crack bridging ability.
- Superior adhesion to variety of construction surfaces.
- Very low VOC.

Physical Constants:

• Finish	Silk.	
• Color	White.	
• Specific Gravity	1.4 @25°C.	ASTM D1475.
• Viscosity (KU)	105 KU @25°C	ASTM D562.
• Volume Solids (%)	53%	ASTM D2697.
• Spreading Rate	1.1 m ² /L @ DFT= 500micron.	
• Solar Reflectance*	0.84	ASTM D7897.
• Thermal Emittance *	0.91	ASTM D7897.
• Freeze-Thaw Stability	Pass, 3 cycles	ASTM D2243
• Heat Stability:	Pass, 30 days, at 50°C.	ASTM D1849.

Surface Preparation:

- For steel / galvanized steel surfaces:
 - * The surface must be sound, clean, dry, free from corrosion, dust, oil, grease and salt
 - * "Jazeera Epo-mastic" should be applied on the rusted areas after suitable preparation.
 - * All holes shall be filled by suitable sealant.
- For cement Tiles:
 - * The surface must be clean, dry, free from dust, oil, grease, salt, mold and protrusions.
- For concrete and masonry surfaces:
 - * The concrete must be fully cured for 28 days.
 - * The surface must be treated by removing all forms release agent and protrusions to get a suitable surfaces for application.
 - * Make sure that the surface is sound, clean, free from dust, oil, greases, salt and mold.
 - * Fill cracks and holes by "Jazeera Epoxy Crack Filler 400".
- For polyurethane foam surfaces:
 - * The surface must be clean, dry and free from dust, oil, grease, salt and mold.
- For polyurethane foam and bituminous surfaces:
 - * The surface must be clean, dry and free from dust, oil, grease, salt and mold

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Application Guide:

1. The surface must be removed from dust, grease, oil and other contaminants completely.
 2. The required temperature during application, must not be less than 5°C; the surface moisture should not exceed 8% and the relative humidity at work place should not exceed 70%.
 3. The Paint should be stirred carefully and homogenously before use.
 4. Do not apply on wet and moistened surfaces until get completely dry.
 5. Do not apply the next coat unless the previous one is fully dry.
- Minimum recoating interval time should be given between the two coats.

Application Tools:

- Airless spray: Nozzle Orifice : "0.017-0.021"
Nozzle Pressure : 15 MPa (2100psi)
Spray Angle : 40-60°
- Roller : (Recommended type: Dekor Nardeen 8009 - code:1093)
- Brush: Recommended type. for narrow areas

Thinner:

- Recommended thinner is "Tap Water".

Painting System:

- For steel and galvanized steel:
 - * Apply one coat of "Jazeera Cool Roof" thickness 75 μ as a primer after thinning (10-15) % water using airless spray
 - * Install "Jazeera Tietex" mish by using "Jazeera Cool Roof" on steel sheets joint which in the path of drainage water.
 - * Apply 2 coats of "Jazeera Cool Roof" 500 μ by airless spray.
- For cement tiles surfaces:
 - * Apply one coat of "Jazeera Cool Roof" thickness 75 μ as a primer after thinning (10-15) % water using roller.
 - * Install "Jazeera Tietex" mish by using "Jazeera Cool Roof" on corners, pipes and drainage.
 - * Apply 1 coat of "Jazeera Cool Roof" 500 μ by roller after that install "Jazeera Tietex" mish then Apply another coat of "Jazeera Cool Roof" 500 μ by roller and continue for full area.
- For concrete surfaces:
 - * Apply one coat of "Jazeera Cool Roof" thickness 75 μ as a primer after thinning (10-15) % water using roller.
 - * Install "Jazeera Tietex" mish by using "Jazeera Cool Roof" on corners, cracks, pipes and drainage.
 - * Apply 1 coat of "Jazeera Cool Roof" 500 μ by roller after that install "Jazeera Tietex" mish then Apply another coat of "Jazeera Cool Roof" 500 μ by roller and continue for full area.
- For polyurethane foam and bituminous surfaces:
 - * Install fabric mish by using "Jazeera Cool Roof" on corners and big holes.
 - * Apply 2 coats of "Jazeera Cool Roof" 500 μ by roller.

Instruction of Use:

- The weight of fabric mesh shall be 93 g/m² and elongation 40%.
- Keo overlapping between the fabric meshes should be 5-10 cm.
- "Jazeera Rebond 100" must be used with sand and cement for repairing (90°) right angles till getting surface free from sharp angles.
- The application must be performed on leveled surface to obtain uniform thickness.
- In case of roof maintenance works, damage parts of the product should be cut and repaired with care about feathering and overlapping (5-10) cm between new and old fabric meshes.
- In case of rain lake and existing of dust sources, the surfaces should be washed to obtain maximum solar reflection.

Drying Time:

Surface dry: 2 hours

Full cure: 7 days.

All above test results according to ASTM D5895.

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Cleaning Tools:

Tap Water.

Packing:

- Drum 18 Ltr.

Shelf Life & Storage:

Shelf life : 24 months @ 25 °C.

Storage: The container should be kept in sealed, dry, cool, well -ventilated place and stored in accordance with national regulations.

Safety Precautions:

Please read and follow the precautionary notices displayed on the container, and all caution statements on the MSDS of this product.

- Handle with care before and during use. During application of paint, contact of liquid paint with eyes, skin, inhalation of paint mist and paint vapour, should be strongly avoided.
- When working with paint in in-sufficient ventilated areas, forced ventilation should be provided.
- For spray application system, eye, skin, respiratory protection are always recommended.
- Keep away from the reach of children.
- For environmental safety: please donate the leftover paint and packaging to your local authorized institution for usage or recycling .

Note: Wastes and empty containers should be disposed of in accordance with local regulations made under the Control of Pollution Act and the Environmental Protection Act.