

HIGH PERFORMANCE LIQUID APPLIED HYBRID POLYURETHANE WATERPROOF ROOF COATING - JK Profix WPC44

Product Description: JK Profix WPC44 is single-component, highly-flexible elastomeric waterproof coat based on modified polyurethane technology with excellent crack-bridging capability. JK Profix WPC44 can be applied by brush, roller, trowel or spray for waterproofing of balconies, terraces, bathrooms. JK Profix WPC44 is a liquid membrane in water emulsion with high solar reflectance and thermal emittance, with a solar reflectance index (SRI) of 105.

AREA of USE :

JK Profix WPC44 is suitable for below area,

- Resistant coat against UV rays and heat for existing waterproof systems.
- Protecting and waterproofing concrete surfaces, cementitious screeds, ceramics or stone coatings.
- Protective coating and waterproof for roofs, exterior and interior walls.

ADVANTAGES

- Excellent resistance to UV , weathering and carbon dioxide.
- excellent to long term durability
- low maintenance cost
- No solvent or fire hazards
- Non toxic
- Excellent crack bridging ability
- Single component , easy to apply
- Can be applied to a wide range of substrates.
- Environmentally friendly
- No dirt pick up
- Excellent waterproofing

TECHNICAL CHARACTERISTICS : JK Profix WPC44 is a ready-to-use waterproofing product, with high solar reflectance and thermal index (SRI) of 105, for external applications made from synthetic resins in water dispersion, and when dry forms a continuous, flexible waterproofing membrane. JK Profix WPC44 is easy to apply using a longhaired roller, brush or spray on horizontal, sloping or vertical surfaces. Once dry, JK Profix WPC44 forms a strong, flexible, tack-free dry surface, suitable for occasional light foot traffic.

TECHNICAL INFORMATION :

Indication	Single Component
Consistency	Viscous liquid
Density (g/cm ³)	1.35
Solid Content	65%

APPLICATION DATA OF PRODUCT AFTER MIXING (at +20°C - 50% R.H.)

Drying time (Hours)	1st coat after primer : approx. 5-6 h; 2nd coat after 8 hours of 1st coat
Application temperature range:	from -5°C to +50°C

Adhesion to concrete (MPa) by pull off: after 28 days at +20°C, 50% R.H.	EN 1542	1.8
Elongation at break - after 28 days at +20°C and 50% R.H. (%):	DIN 53504	> 200%
Tensile strength (Mpa)	ASTM D412	1.85
Static crack-bridging at +20°C expressed as maximum crack width - after 28 days at +20°C and 50% R.H. (mm):	EN 1062-7	Class A5 (> 2.5 mm)



Impermeability to water (capillary absorption)(kg/m ² ·h)	EN 1062-3	< 0.1
Permeability to carbon dioxide (CO ₂) - diffusion in equivalent air layer thickness S (m)	EN 1062-6	> 50
SRI (Solar Reflectance Index)*:	ASTM E1980	105
Solar reflectance* (%):	ASTM E903	83
Emittance* (%):	ASTM C1371	91

APPLICATION PROCEDURE:

PREPARATION OF THE SUBSTRATE

All substrates, whether they are new or old, must be sound, clean, dry and free of all traces of oil, grease, old paint, rust, mold and any other material which could compromise the bond. Carefully clean the existing bituminous membrane to provide a clean, dry substrate. Concrete and in general mineral substrates must be sound and dry with no rising damp. Any loose particles must be removed. All wax, water-repellent treatments, etc. must be removed from the surface of ceramic substrates with a suitable detergent and/or by sanding. Any hollows in the surface must be repaired. Infill the gaps between existing ceramic tiles before application of JK Profix WPC44. Apply JK Profix WPC44 as a primer diluted with 10% of water. Before applying JK Profix WPC44, pay particular attention to the expansion joints and the filets between horizontal and vertical surfaces, which must be waterproofed using rubber tape sandwiched between two layers of non-woven fabric, self-adhesive butyl tape, bonded to the substrate with JK Profix WPC44. Use a suitable kit from the Drain range to seal any drains.

MIXING : The product is supplied ready to use. It is however recommended to mix the contents to perfectly blend the product.

APPLICATION :

JK Profix WPC44 must be applied with a brush, long-haired roller or airless spray. Apply two dry coats of JK Profix WPC44 around 0.4-0.5 mm thick each. Wait until the first coat is completely dry and that it becomes slightly darker in color before applying the next coat. The second coat must be applied in a criss cross direction to the previous coat. The dry thickness of JK Profix WPC44 must never be less than 0.8-1 mm. If the substrate has micro-cracks, lay non woven polypropylene fabric between the two layers of JK Profix WPC44. While gradually applying the product, immediately lay the non woven polypropylene fabric and go over the surface with a flat spreader or spiked roller to ensure it is perfectly wetted. When the first coat is completely dry, spread the second coat of JK Profix WPC44 to cover completely non woven polypropylene fabric. Protect the JK Profix WPC44 membrane from rain until it is completely dry.

RECOMMENDATIONS FOR APPLICATIONS : Do not apply if there is any dew on substrate, or wet substrates protect from rain and water spillage for the first 24 hours after application. | Do not apply on cementitious substrates not sufficiently cured. | Do not apply on substrates not properly prepared and leveled.

PRECAUTIONS TO BE TAKEN DURING AND AFTER APPLICATION: During hot weather above +30°C, it is advisable to keep the product out of direct sunlight before use. After application, and in particularly dry, hot or windy weather, we recommend that the surface is protected from rapid evaporation with sheets.

CLEANING: The tools must be cleaned with water immediately after use.

COVERAGE :

Waterproof membrane: at least 2 kg/m².

Protective finish on bitumen membranes: approx. 0.5 kg/m²;

Approx. 0.9 kg/m² on mineral-filled membranes.

The consumption rates indicated are for a seamless film on a flat surface and could be higher on uneven substrates and depending on the absorbency of the substrate.

TECHNICAL SUPPORT : JK Cement Works (Fujairah) FZC provides a technical advisory service for on-site assistance on request.

PACKAGING : 20 Ltr Plastic pail.

STORAGE & MATERIAL HANDLING: JK Profix WPC44 may be stored for up to 12 months in its original packaging in a dry place. Protect from frost.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION: Care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep out from the reach of children. Please refer to the Material Safety Data Sheet for more details.



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