SEIRE WP300 INSULATION

High solar reflectance waterproofing paint for *Cool Roof* systems

One component

Waterbased

Solvent free, low VOC, not ADR

Easy application and repair

Accomodates any substrate geometry

Heat shielding and thermal protection

Watertight

Water vapour breathable

Weather and UV proof

For vertical and horizontal outdoor surfaces

SRI 107 according to ASTM E1980-11

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SEIRE WP300 INSULATION

High solar reflectance waterproofing paint for *Cool Roof* systems

Product description:
One-component, matt, white, waterbased aliphatic polyurethane polymer dispersion with a great hiding power that generates a waterproof, deformable membrane, with excellent effectivity in terms of solar reflectance and heat emissivity, to act as a barrier against heat transfer thus providing a more comfortable environment inside the building and increasing energy efficiency.
SRI*107 (Test report by TECNALIA).
The formulation contains dirt repellents for a self cleaninig effect to keep the white colour of the membrane unaltered during its life span.
After curing, SEIRE WP300 INSULATION is recoatable, washable, watertight, water vapour breathable and resistant to frost and weathering.
Environmentally friendly: Solvent free, low VOC. Not ADR.
***SRI** (*Solar Reflectance Index*) is the result of a calculation according to ASTM E1980-11 using solar reflectance and emissivity values for different convection coefficients. The higher the SRI the better performance.

Applications:
Cool Roof. High solar reflectance top coat on waterproofing systems and waterproofing membranes in visitable roofs and decks. Applicable on vertical and horizontal elements even with slope zero.

Substrate preparation:
The substrate must be dry, hard, sound, and free of grout, grease, oil, wax, dust and other loose particles such as paint, release agents, traces of lime, mortar, plaster, adhesive residues, etc., that may impair adhesion.
Prepare the substrate using specialist machinery – sanding or diamond tools depending on the state of the substrate. Vacuum the substrate.
Properly treat and seal all joints or gaps in the concrete substrate where differential movement is expected (for example expansion joints).

Priming:
Depending on substrate absorption, priming with a thin layer of SEIRE WP300 INSULATION diluted with max 15% water is advised.
Do not dilute the material when used as topcoat of a waterproofing membrane or system.
On alkaline and non/low porous substrates it is advised to use SEIRE WP PRIMER as a bonding layer.

Recommendations:
SEIRE WP300 INSULATION should be stirred before use.
In general, a minimum thickness of 200-300µ dry is needed, but to achieve optimal performance and durability, the application of a film of 500µ dry is recommended.

Limitations:
Do not use SEIRE WP300 INSULATION where ambient and/or substrate temperatures are less than 5°C or less than 3°C above the dew point.
Do not use where ambient and/or substrate temperatures exceed 30ºC or where ambient humidity exceeds 85%.
Avoid application while raining or in strong wind and when freezing is expected in short.

Method of application:
Apply a minimum of two layers of SEIRE WP300 INSULATION directly on the cured primed substrate (if necessary) using a brush or wool roller.
It can be applied by airless gun at 200 bar pressure with a 423 or 425 nozzle and a 50 mesh filter. Successive layers can be applied when the former ones can be walked on without stickiness.

Consumption:
Approx. 250 g/m²/layer

Cleaning of tools and equipment:
SEIRE WP300 INSULATION can be cleaned with water immediately after use. If the product is allowed to harden, it will have to be removed mechanically or using organic solvents.

Residues/spillages:
Any spillage must be removed immediately with sand, vermiculite or other inert material and collected in a suitable container for proper handling and treatment. Residues from spillage and empty containers must be dealt with in accordance with local regulations. See product safety sheet for further information.

Storage:
SEIRE WP300 INSULATION can be stored for up to 12 months in its original unopened packaging. The product should be stored in a dry place between +5°C and +30°C. Keep away from frost, direct sunlight and sources of heat.

Precautions:
Avoid contact with eyes and skin. In case of contact with skin, wash with soap and water. In case of contact with eyes, flush immediately with plenty of clean water and consult a doctor.
Safety goggles and gloves must be worn at all times when applying the product. Once dry, the product is physiologically and ecologically neutral. See product safety sheet for further information.

Technical data

(based on tests conducted in our laboratory according to current regulations)

Appearance:	White viscous liquid
Density:	Approx. 0.98 kg/L
Solids by volume:	Approx. 40%
Consumption:	Approx. 250 g/m²/layer
Resistance to rain (20ºC):	Approx 3 hours
Touch dry (20ºC):	Approx 2 hours
Recoatable (20ºC):	Approx 12 hours
Full cure (20ºC):	Approx 7days
Service temperature:	From -20ºC up to +90ºC
Solar Reflectance (ASTM E903-12):	87 %
Emissivity (ASTM C1371-15):	0.81
SRI (ASTM E1980-11):	107.7 (Low Convection coef.) 108.2 (Medium Convection coef.) 108.6 (High Convection coef.)
Ts (°C) Surface temperature in steady state (ASTM E1980-11):	44.5 (Low Convection coef.) 41.6 (Medium Convection coef.) 38.9 (High Convection coef.)
Packaging:	20 kg
Storage:	Approx. 12 months in a dry place and in original unopened packaging

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