AQUATHERM

INSULATING CERAMIC COATING

Product Description:

AQUATHERM is a high-quality elastomeric paint containing the revolutionary, durable AQUATHERM Ceramic composite sphere which makes the paint insulate and reduce energy costs.

AQUATHERM uses an additive, which is a technology developed by NASA with the US space shuttle program. It has been independently tested and scientifically proven.

Key Features:

- Saves energy.
- High weather resistance.
- Stable over temperature variations.
- Non-toxic & environmentally friendly.
- Remains intact on flexible surfaces.
- Excellent crack bridging.
- Exceptional film durability.
- Resistant to atmospheric pollution.
- Resistant to UV degradation.
- Bonds well to a wide range of surfaces.
- Gloss retention & mildew resistant.
- Easy to apply.
- Rapid drying for quick re-coating.
- Easy clean up with soap and water.

AQUATHERM coating is ideal for areas that will be subjected to moisture as it will not only reduce heat transfer, but also protect against moisture ingress. AQUATHERM coating also acts as a water-proofing membrane if applied as per manufacturer's recommendations.

How Does it Work?

AQUATHERM is a coating, made up of composite micro-spheres. AQUATHERM composite spheres have a vacuum inside, similar to a mini thermos flask. The spheres enable AQUATHERM to refract, and dissipate heat. On internal walls and ceilings this reduces heat loss- AQUATHERM on external walls and roofs will reflect heat from the sun, creating a cooler internal environment.

AQUATHERM contains Ceramic composite spheres which create a thermal barrier. They refract, reflect and dissipate heat. These spheres are 30-100 microns in diameter.

Why Use AQUATHERM?

- Energy Savings
- Superior Flexibility- its durability & flexibility makes it ideal for supplies that will bend or move through flexing or expansion and contraction due to heating and cooling.
- UV Blocker- Blocks solar UV radiation, protects coating and surface applied upon.
- Lightweight- AQUATHERM coatings is lighter than traditional insulation boards.
- Reduces labour costs- Easy application reduces costs and saves time.

Application:

- AQUATHERM coating is supplied in 20 Kgs packing. It can be applied by paint brush, roller or paint pad. It can also be applied by spray equipment but the filters must be removed.

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For best results, minimum three coats of AQUATHERM coating should be applied. AQUATHERM coating gives a very mild textured feel and produces a flat finish.

Recommended System:

For Concrete Roof Surfaces:
1st coat : ASO® Unigrund-P @ 50 Sq. ft./ ltr.
2nd coat : AQUATHERM @ 0.25 kg. / Sq. mtr.
3rd coat : AQUATHERM @ 0.25 kg. / Sq. mtr.
4th coat : AQUATHERM @ 0.25 kg. / Sq. mtr.

For External & Internal wall surfaces areas:
1st coat : AQUATHERM @ 0.25 kg. / Sq. mtr.
2nd coat : AQUATHERM @ 0.25 kg. / Sq. mtr.
3rd coat : AQUATHERM @ 0.25 kg. / Sq. mtr.

Save Money and The Environment

AQUATHERM coating is a high tech, innovative, environmentally friendly latex coating containing ceramic insulation material which is manufactured using the latest technology.

When used on the Roof, External walls and inside of external walls, AQUATHERM coating can reduce energy costs by up to 37%.

AQUATHERM coating is specially formulated for use on buildings which are subject to sustained solar heat.

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AQUATHERM coating also acts as a water-proofing membrane if applied as per manufacturer's recommendations.

If painted on interior walls, it helps to retain heat within the building when outside night temperatures fall.

It is applied by conventional methods and designed for use on:

- Domestic, commercial, and industrial buildings (precast, masonry, metal sheets).
- Oil storage tanks and shipping containers.
- Caravans and mobile homes.
- Steel and GRP hulls on boats & yachts.
- Bituminous sheeting and membranes.
- Sprayed PU foam.

Storage:

12 months when stored dry in the original unopened packaging. Use opened packaging promptly at +20°C and 60% relative humidity.

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Specifications

Coating type	Elastomeric
Thermal Transmission	0.017 W/m/K
Solar Reflectance	Reflects > 85%
Toxicity	None
Fungus Resistance	No growth or discoloration
Impact Resistance	Good
Volatile Organic	Not Exceeding 250gms/
Abrasion Resistance	Very Good
Number of coats	2 or 3
Solids by volume	85% ± 2%
Warranty	10 years
Accelerated Weathering	Discoloration- None / Chalking- None
Vehicle Type	100% Acrylic Latex
Pigment Type	Titanium Dioxide, Calcium Carbonate
Touch Dry	@77 °F – 2 Hours
Recoating time	@77 °F: 12 Hours
Curing Mechanism	Evaporation, Coalescence
Viscosity	115 ± 5 KU
Flash point (Seta)	None
60° Specular Floss	Low-Lustre
Surface Temperature Limits at Application	Min 50°F (10℃) Max 110°F (44℃)
Clean-up Medium (uncured material)	Clean Water
Weight Per Specific Gravity	1.4
Storage Temperature Limits	Min 40°F (5℃) Max 105°F (40℃)

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