

## SurfaceCool™ Cool-Exterior®

### Description

SurfaceCool™ Cool-Exterior® is 100% Acrylic Polymer acrylic resin is nontoxic (Environmentally friendly) developed specifically to help improve wet and dry adhesion for protective elastomeric external Wall coatings.

SurfaceCool™ Cool- Exterior® with Bubbles nano-technology is energy-saving for exterior walls coating with thermal coating reduce the indoor temperature and saving energy, as well Totally weatherproof and breathable Building repair work caused by rainwater ingress and freezing conditions will be eliminated once and for all.

This specialist application is perfect for the roughcast brick, Concrete Bricks, Solid Concrete Blocks, Aerated Autoclaved Concrete Blocks, Hollow Concrete Blocks, Lintel Blocks, Concrete Stretcher Blocks, Jamb Concrete Blocks, and Concrete Pillar Blocks. and will help to reduce heat transfer through solid walls.

exposed to extreme weather conditions. Completely safe, none-toxic and environmentally friendly coating that is a fast and cost-effective way to insulate and protect buildings that would be difficult to shield with conventional methods.



### How SurfaceCool™ Cool- Exterior Coating Works ?

This coating contains a 3M Glass Bubbles highly efficient thermal barrier to reflect, refract and dissipate heat, dramatically reducing heat transfer through solid and hollow walls.

Also coating for external walls is recommended for use on residential, commercial and industrial buildings. It helps to keep internal temperatures more comfortable, by protecting the walls that are weatherproof external coating with anti-corrosion materials and Low VOC.

Cool- Exterior® are available in white color and other colors to meet the architectural engineers and clients demands .



Cool- Exterior Available Colors

The coating system is designed to keep the heat in and weather out, reducing the energy heating costs and SAVING you up to 25% annually. The system involves fixing the insulation coating to the outside of the building with a final decorative finish Acrylic coat .

Additionally, this premium-quality coating protects the walls from extreme weather damage (e.g. driving rain, intense temperatures of heat or cold by forming a breathable, fully weather-resistant surface.

0.20 g/cm<sup>3</sup>



34 Bar



**Cool- Exterior®** having Glass Bubbles a density of 0.20 g/cc and an isostatic crush strength of 500 psi , High RSI > 110.5 , Fire Resistance class A and none Flammability .

SurfaceCool **Cool- Exterior®** coating works proudly for construction companies and painting contractors around

d the world for use on a variety of buildings that require a top-grade.

**Cool- Exterior®** Glass Bubbles is also used in solar reflective coatings for roofs, exterior. Additionally, Cool- Exterior® are non-combustible and non-porous, so they do not absorb resin; and their low alkalinity makes this product compatible with most resins while providing a stable viscosity and a long shelf life.

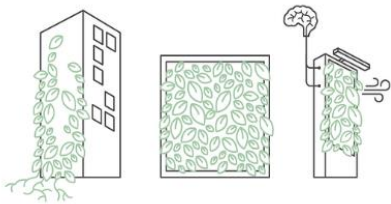


## Benefits:

- Thermal Wall Insulation without disruption to the home, that does not lose any valuable living space.
- Low Thermal Conductivity 0.07 W / m.k
- Low-temperature flexibility down to 8°C .
- Water based acrylic paint, therefore eco-friendly.
- Reduce the local air temperatures and reduce the internal humidity less than 50 % .
- Reduces condensation on internal walls also discourages damp issues.
- Improves the appearance of ageing exterior walls.
- Reduction of density and improving buoyancy
- Higher filler loading feasible and lower VOC for paints and coatings.
- Reduced dielectric constant
- Fills in any cracks, hides any imperfections to brickwork and consequently eliminates droughts they were causing problems Increases the value of your property immediately after installation.
- Cost effective alternative to demolition or new build
- Prolongs the life expectancy of your property by protecting the exterior fabric.
- Lower peak electricity demand, which can help prevent power outages up 25% .



Test type	Standard	Result
<b>Solar Reflectance Index ( SRI)</b>	<b>ASTM E 1980 : 01</b>	<b>109 -110 - 111 (DCL)</b>
Thermal conductivity	ASTM C518 - 02	0.07 W/mK
<b>VOC Content</b>	<b>BS EN ISO 11890-2 : 2013</b>	<b>&lt; 0.1 g/l</b>
Flammability	ASTM D1230-10	None
<b>Fire Resistance</b>	<b>ASTM E84</b>	<b>Class A</b>
Neutral SALT Spray test	ISO 9 227:2017	Pass
<b>Corrosion Category</b>	<b>ISO 12944-2</b>	<b>C4 High &amp; C5 Medium</b>
Degree of Corrosion & Delamination	ISO 4628-8	Corrosion grade 1 Delamination grade 1
<b>Neutral SALT Spray test – Cracking</b>	<b>ISO 4728-4</b>	<b>0S(0)</b>
Pull of adhesion strength	ASTM D454-17	2.23 N/mm2
<b>Heavy metals</b>	<b>ICP-AES/WLIP-028</b>	<b>&lt;0.05 PPM</b>
	<b>ISO 3856-2</b>	<b>&lt;0.1 PPM</b>
	<b>ISO 3856-7</b>	<b>&lt;0.1 PPM</b>



**Composition**

100% Acrylic binder with vacuumed ceramic microspheres with a thermal conductivity of 0.070 Wm2k, and minimum survival pressure of 500psi.

Appearance:

Liquid

Colors:

White and more available colors

**Typical Properties:**

Active Ingredients:	83.60%
Density at 20 C°	0.93 kg/Litre
SRI:	110 – 111 (DCL)
VOCS	<0.1gr/L (DCL)
Heavy Metals	None (DCL)
Fire Resistance	Class A (ASTM E84)
Max. Tensile Strength:	0.85 (MPa)
Average Elongation:	143%
Water Vapor Permeance:	23.1 Perms
Variable Permeability:	Breath water vapor when dry and block water migration when saturated
Break Stress:	109 psi
Flammability:	Non-flammable
Properties	One-compound liquid-applied
Main Applications:	<ul style="list-style-type: none"><li>• Powder coated / galvanized metal walls</li><li>• Concrete walls</li><li>• Plastered walls</li><li>• Brick walls</li><li>• Timber cladding's</li></ul>
Application	Airless sprayer or roller Surfaces must be free of dust, laitance, grease and any other contaminant that may affect adhesion. Use of high water or air pressure is recommended as a rule .
Storage / Packing	Store at minimum 0 Deg C - maximum 30 Deg C (do not freeze) , 18.93 Liter .