

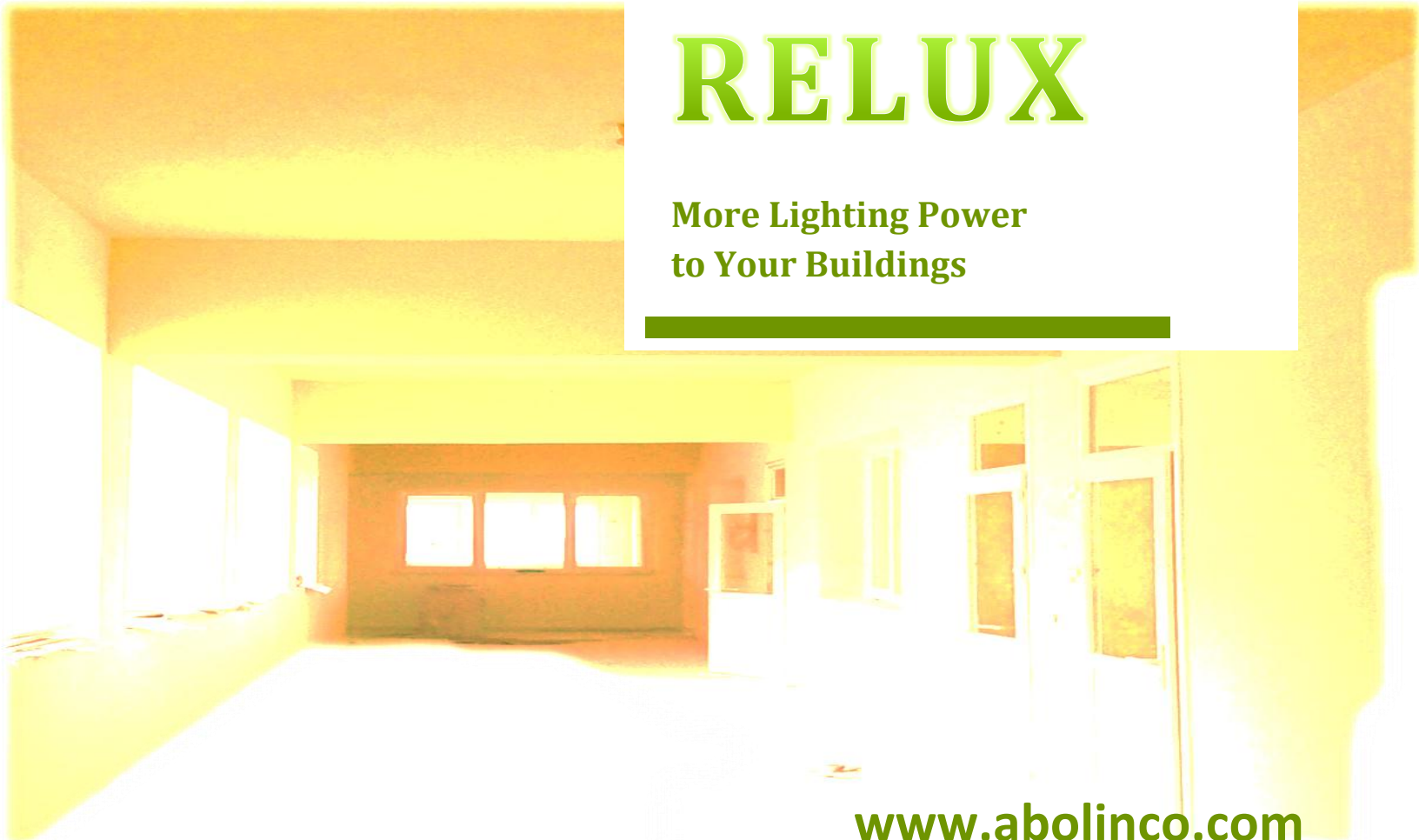


High LRV “easy to clean” coating for building’s walls and ceilings

Energy Savings  
Easy to Clean  
Weather Resistance  
Extreme Durability

# COOL BARRIER RELUX

More Lighting Power  
to Your Buildings



[www.abolinco.com](http://www.abolinco.com)

## High LRV Coating makes buildings be bright and spacious

Despite the daylight within a space being affected by the finishes of all surfaces, wall surfaces are the most amenable to change due to practical considerations. It should be noted that changes in wall reflectance might also change the perceived brightness of a space, which may in some cases have a larger impact than the change in daylight factor. To reduce lighting loads and meet targets set in building codes, architects are now encouraged making maximum use of high LRV (Light Reflectance Value) for internal surfaces. Cool barrier Relux technology improves daylight factors and contributes into the reduction of electricity consumption of lighting circuits. On the other hand, many current references demand 'cool roofing' and "cool exterior walls". COOL BARRIER RELUX technology allows the design of building envelopes that remain cool under the sun and the maximizing of the luminance of internal surfaces.

## Reflects up even 20% more Light!

**Cool Barrier Relux** uses revolutionary technology that helps reflect even 20% more light around the room, making even the smallest rooms' look and feel more spacious compared to conventional emulsion paints with a similar hue.

# Cool Barrier Relux

## Cooler, Brighter and Spacious

A high performance, waterborne paint for building's interior and exterior uses. **Cool Barrier RELUX** uses a revolutionary technology that helps to reflect artificial light and sunlight around the room making even the smallest interior areas look more spacious compared to conventional emulsion paints with similar hue and chroma. **Cool Barrier RELUX** from Abolin Co Greece performs a tough and smooth surface with excellent resistance to typical household stains, frequent cleaning with soft detergents, UV sunlight, dust and dirt contamination. Its unique formulation allows the formation of a final easy to clean surface with high algae, bacteria and fungi resistance.

**Cool Barrier RELUX** has limited VOC content, no preservatives, no formaldehyde or heavy metals and it's use is highly recommended in critical areas, such as hospitals, clean rooms, schools, restaurants and food companies.

## International Certificates



JIS Z 2801 : 2010

(SIAA/JSA)

Antibacterial products — Test for  
antibacterial activity and efficacy



## COOL BARRIER TECHNOLOGY Enhance Quality of Life

Schools, homes, warehouses, factories, – or any structure set in a sunny environment can develop uncomfortable levels of heat. COOL BARRIER work to decrease this heat build-up and enhance the quality of life for occupants. Moreover, a sufficient and/or comfortable level of lighting improves the indoor comfort conditions, minimising glare problems while maximising lighting power and the levels of brightness.

### Special Characteristics per application: Interior-Exterior

- ✓ Saves energy by reducing the needs for cooling (exterior)
- ✓ Creates indoor thermal comfort conditions (exterior)
- ✓ Saves money by reducing the billing costs for cooling (exterior)
- ✓ Saves money by reducing the billing costs for lighting (interior)
- ✓ Helps keep the aesthetic option of the walls clean (interior-exterior)
- ✓ Superior Durability
- ✓ Environmentally and user friendly
- ✓ Almost Zero VOC

#### CLASSIFICATION ACCORDING TO EN 1062-1

<b>Class for specular gloss</b>	G <sub>3</sub>	Matt
<b>Class for dry film thickness</b>	E <sub>2</sub>	> 50 ≤ 100
<b>Class for grain size (±100)</b>	S <sub>1</sub>	Fine

#### PAINT PROPERTIES

<b>Volume Solids</b>	37%
<b>Weight Solids</b>	49%
<b>Density</b>	1.350
<b>Viscosity - Krebs Stormer (KU)</b>	108 - 118
<b>Calculated VOC* content (g/L of wet paint)</b>	< 0.1

(\*) VOC: Amount in g/L of organic compounds having an initial boiling point less than or equal to 250°C measured at a standard pressure of 101.3 kPa.

**Suitable Substrates:** It is suitable for every kind of new or old mineral substrate, new or already painted wall with acrylic waterborne systems. It specially designed for interior use on all normal interior wall and ceiling surfaces, especially those subject to frequent cleaning.

For other substrates please ask for technical details.

**Colors:** It is available in a standard highly reflective white and in a number of shades through Abolin Cool Barrier Colors Palette.

**Consumption Rates:** For an excellent performance 5-6 m<sup>2</sup> per liter (2 layers) must be obtained.

**Surface preparation and Primer systems:** To get the best results with Cool Barrier Relux, make sure surfaces to be painted are sound, clean, dry (new surfaces particularly must be fully dry).

Remove all loose and defective paint. Where necessary, wash the surface to remove dirt, grease and powdery or dusty residues. Rinse with clean water and allow to dry. Seal surfaces that remain powdery after thorough preparation with an appropriate primer sealer such as Abolin Cool Barrier Grip Nano Primer. Where necessary, rub down and then wipe off with a damp, lint free cloth to avoid dust. Any surface defects should be filled with the appropriate Putty (ready mixed filler). Ask our technical department for any support.

**Recommended Primers:** Cool Barrier Grip Nano.

**General:** Cool Barrier Relux should be applied at a maximum of 3-4 dry mil thickness (about 1 lit per 5 Sqm) in two at least passes. Allow adequate time between passes before applying the following coat, usually three to four hours under normal conditions.

Always ensure that properly adhesion between the coating and the substrate has been achieved.

**Cool Barrier Relux should be NOT BE applied:**

- At temperatures below 5°C (or 40°F)
- At very high (>90%) relative humidity
- When rain has already begun or is expected during the next 24 hours
- When impending rain is expected to last more than one hour
- On heated surfaces, such as radiators
- On immersed surfaces or where there is heavy and prolonged condensation

**Drying Time and recoatability:** Touch dry during summer season after 3-4 hour and recoatable after 24 hours. Drying time depends on weather conditions and can be quite different in accordance to conditions of humidity or temperature.

### SYSTEM INFORMATION

**STIR THOROUGHLY BEFORE USE.** Seal new or bare surfaces with a thinned first coat of Cool Barrier Relux (up to 1 part clean water to 10 parts paint). The normal finishing process is 2 coats of Cool Barrier Relux. For best results the prior use of the Cool Barrier Grip Nano Primer is highly recommended. For best colour consistency, purchase sufficient tinted paint for each job including touch-in at one time from the same source.

**Packaging:** 18.0 liter cans.

**Storage:** 6 months under appropriate storage conditions

### **Practical Coverage (not to be confused with needed consumption rates):**

A guide to the practical coverage which can be achieved under normal conditions is up to 10m<sup>2</sup> per litre in one pass.

### **Application Methods**

Brush, roller, conventional spray or airless spray.

### **Thinning:**

**Sealing new or bare surfaces:** Add up to 1, 5 part clean water to 10 parts paint.

**Normal use (not to be exceeded):** Add up to 1 part clean water to 10 parts paint.

**Conventional spray application:** Add up to 1 part clean water to 2.5 parts paint.

**Airless spray application:** Add up to 1 part clean water to 5 parts paint.

### **Spray Recommendations**

**Conventional Spray:** Satisfactory through most equipment.

**Airless Spray:** A typical set up for airless spray would be a minimum working pressure on paint of 133 bars (2000lb/sq in) with a spray tip size of 0.38mm (15 thou) and a spray tip angle of 65°.

**Cleaning Recommendations for Painted Surface:** Common stains can be removed by cleaning promptly with a soft cloth and clean soapy water. Allow to dry. Vigorous scrubbing and the use of abrasive cleaners or scourers may impair the matt finish. Only apply enough pressure to remove marks. Oil based stains and marks from some pens/felt tips/permanent markers may not be completely removed. Full durability develops 7 days after initial application.

**Cleaning Up:** After use, remove as much product as possible from equipment before cleaning with water. When this paint container is empty please ask your stockist about recycling. If you have leftover paint, please dispose of it responsibly and consider donating.

**VOC's Classification:** EU limit value for this product (cat.: A/a): 30g/l (2010). Ready Mixed: This product contains max. 2 g/l VOC. Tinted OFF WHITES Colour: This product contains max. 5g/l VOC.

**Safety and Health Information:** Follow instructions and recommendations of the MSDS. Please read carefully the product label, the technical data sheet and the material's safety data sheet before any use. Safety datasheet (MSDS) is available free on request by telephoning the Abolin Co Technical Department or by contacting the nearest local distributor.

#### LIMITATION OF LIABILITY

The information in this data sheet is based upon laboratory tests we believe to be accurate and is intended for guidance only. All recommendations or suggestions relating to the use of the Coatings products made by Abolin Co, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge are reliable. The products and information are designed for users having the requisite knowledge and industrial skills and it is the end-user's responsibility to determine the suitability of the product for its intended use.

Abolin Co has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Abolin Co Coatings does therefore not accept any liability arising from loss, injury or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise).

The data contained herein are liable to modification as a result of practical experience and continuous product development. This data sheet replaces and annuls all previous issues and it is therefore the user's responsibility to ensure that this sheet is current prior to using the product. The English text of this document shall prevail over any translation thereof.

The management system has been certified according to EN ISO 9001

**Abolin Co. Greece**  
18 Galaxia Str Athens  
Tel (0030) 210 5575568  
Fax (0030) 210 5570616  
abolin@abolinco.com,  
www.abolinco.com