

# SPORTS SURFACES

DATA SHEET

## LUMIDARK 1000

**Synthetic resin based, photoluminescent finish coat  
for special applications**

### CHARACTERISTICS

Lumidark 1000 is a photoluminescent finish coat that can be applied on acrylic surfaces such as Colorpark, Colortop or Colorsint systems, both on asphalt or cement. Thanks to his special pigments, the product emits light when is dark and is suitable for recovering cycling tracks not illuminated or road sings like pedestrian crossings and orizontal sings in general.

Lumidark 1000 resist to the passage of bike and motorcycles. The photoluminescent effect is more pronounced is situation of complete dark and doesn't runs out.

Lumidark 1000 can be used in every situation where night visibility is requested without using artificial lighting.

### APPEARANCE

Medium viscosity liquid

### CHARACTERISTICS OF THE LIQUID PRODUCT

Characteristic	U.M.	Value	Tolerance
Specific weight	Kg/dm <sup>3</sup>	1,2	± 0,1
Dry mass residue	%	53	± 0,5
Residue at 450° C	%	21	± 0,5
Brookfield viscosity (with Brookfield viscosimeter rotor no. 4, speed 5)	mPa.s	24000	± 2000

### LAYING INSTRUCTIONS

Tools	Thinner	Type of thinner	Cleaning tools
Brush	Approx. 10 %	Water	Water
Roller	Approx. 10 %	Water	Water
Spray	15 – 20 %	Water	Water

### LAYING SURFACE

Lumidark 1000 can be applied both on cement or asphalt surfaces (consult the specific sheets relating to the creation of the substrates). In any case the laying surface must be compact, free from oils, grease humidity and well levelled. The cement surfaces must be homogeneously rough and be treated with a primer (Epobase A). If the laying surface is affected by vapour tensions please contact the Casali's Technical Office to pick the best technical solution.

In case of an old acrylic surface this must be well applied, dry, clean and homogeneously rough.

**IMPORTANT:** resin surfaces are generally waterproof (non-draining) so that the deck must be sloped correctly to ensure rainwater runoff and prevent pooling. Works to correct the deck must be carried out before laying the final covering; if necessary please contact the Technical Office of Casali S.p.A.

### CONSUMPTION

The minimum recommended consumption is 0,2 – 0,3 Kg/mq in 2 coats. The consumption can vary depending on the roughness, absorption grade of the background and the application method.

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## APPLICATION INSTRUCTIONS

Ambient temperature: MIN 10°C - MAX 40°C  
Ambient relative humidity: MAX 50%  
Laying surface temperature: MIN 5°C - MAX 50°C

## DRYING AND HARDENING AT 23°C AND R.H. OF 50%

Pot life	30'
To touch	1 h
Interval between coatings	2 h

The times shown are intended for standard laboratory conditions. Drying times are strongly affected by weather conditions; high temperatures and direct sunlight reduce the drying times; areas in shadow, low temperatures and high humidity increase the drying times. In winter the product should be laid in the middle of the day when it is warmer. Ensure that the previous layer has dried properly before applying the next layer.

## PACKAGING INSTRUCTIONS

Colours available	Green, Blue on request
Packaging	18 Kg

## STORAGE INSTRUCTIONS

Storage temperature:	MIN 3°C - MAX 40°C
Stability in the original package:	12 months

## IMPORTANT INSTRUCTIONS

Do not apply the product in the case of fog, high humidity levels, rain or frost. The conditions of the deck must be checked to ensure that it is plane, resistant, consistent that the granule grading is correct in order to prevent imperfections on the surface. Repairs and/or filling must be carried out according to the specifications of Casali S.p.A. Check for rising dampness and/or infiltrations, if necessary contact the Technical Office of Casali S.p.A.

## SAFETY STANDARDS

Please read the safety data sheet carefully before using this product.

*The data provided by these data sheets are approximate and the Company reserves the right to modify the same for technical reasons, without prior notice. The solutions proposed do not represent all the possible uses but are merely case studies deriving from Casali's installation experience and are therefore intended only for purposes of illustration. The user is exclusively responsible for the way the products illustrated are used, whether properly or improperly, for evaluating in advance the suitability or otherwise of the product for its requirements and exerting the utmost caution in handling chemical products. **Important: to ensure best colour uniformity of surface laid products, we recommend that you use materials from the same production lot as finishing layer. The Technical Office of Casali's Synthetics Division is at your complete disposal for any further specific information or explanations you may require (phone 071 9162095).***

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