PHOTOLIGHT ®

Photoluminescent aerosol paint

TECHNICAL DATASHEET

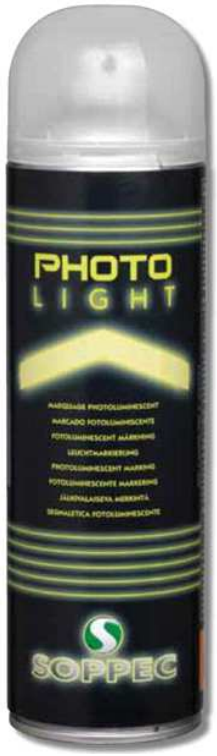
Product code	18100
Colour	**Yellow-Green**

APPLICATION AREA

PHOTOLIGHT stocks natural or artificial light in order to return it in the total darkness.
It allows the realization of safety markup/ spotting systems without any electrical energy source inside and outside.

- Emergency exits
- Safety areas in tunnels
- Extinguishers location
- Miscellaneous signalling

Photolight can be applied on concrete, bitumen, wood, metal, stone, plastic, paint, textile etc.
Its high afterglow quality allows it to meet requirements DIN67510 and NF X08 050 Class D.



COMPOSITION

- Binder : Acrylic
- Pigments : Latest-generation photoluminescent (longer lasting and more intense). They are free of lead, cadmium and radioactive material.
- Solvent : mix of aliphatic hydrocarbon and ester

PACKAGING

- Can, gross volume 650 mL ; net volume – 500 mL
- Use in up right position
- Standard photoluminescent cap
- Box of 6 sprays

APPLICATION METHOD

- Nature of support: to have the optimal photoluminescent effect, the support **must be white**. It should be proper and dry.
  The effect will be low on a dark support. We recommend to use *Fluo Marker white* (réf. 131300).
  - ☝ On painted or plastic supports we recommend to always do a test in order to check the compatibility of the support.
- To protect the neighboring surfaces in order to avoid possible projections.
- BEFORE use :shake the aerosol with the upside down to mix the paint properly (you can hear the beads clearly)
- Use in upright position for vertical application.
- Apply at 10/20 cm from the support to have a precise mark.
  For the optimal effect, it is recommended to apply 3 thin and even layers with 5 minutes gap instead of one thick layer.
- DURING use : Shake the spray regularly in order to obtain a constant and even application
- AFTER use : purge upside down during 2-3s (until only gas comes out), in order to clean the valve and the diffuser. The purge is IMPERATIVE to optimize the good running of the aerosol until its end.
- To become photoluminescent the paint should be exposed to a natural or artificial light source before. Exposure of the marking to light during a day allows obtaining the signalization visible during a whole night.
- *PHOTOLIGHT* can be used manually or with our application pistol (réf. 432442) or together with our stencils range.
- Can be used until -15°C. If used below -15°C, the r unning and quality of the spray risk to be strongly deteriorated because of a high decrease of pressure caused by very low temperature.

ADHERENT

- CFA (www.aerosols-info.org)
- FIPEC (www.fipec.org)

Mise à jour : 16.01.13

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STORAGE & HANDLING :

- The aerosols should be stored between 15 and 25°C a nd less than 60% relative humidity.
- Do not expose to a temperature higher than à 50°C
- Sprays *PHOTOLIGHT* are stable at low temperature and frost. Nevertheless it is always recommended to stock the sprays at ambient temperature before use.
- Keep away from any ignition and heat source and direct sunlight.
- As with any other handling and storage operation, it is especially recommended not to smoke

HYGENE ET SAFETY :

- Composition respecting a man and environment (non toxic, non Xn (harmful), non Xi (irritant), non N (toxic for aquatic organisms))
- Formulation without chlorinated solvents
- Without aromas (toluene, xylene…)
- No CMR (cancerigenic, mutagenic, reproductive toxicant)

Consult the material safety data sheet (Internet : www.quick-fds.com)

PRODUCT TYPICAL CHARACTERISTICS :

- Smell: like solvent
- Time of drying: 5mn
- Mark lasting: until several years depending on application conditions and solicitation.
  The phenomenon of photoluminescence can be renewed indefinitely without quality lost and it stays durable until complete abrasion of the paint.
- Dry extract / aerosol : 21% of weight
- VOC / aerosol : 79% of weight
- Autonomy : *values given for information only*
  $1m^2$ = Performances meeting requirement NF X08 050 Classe D. (3 layers)
  $1.5m^2$ = Performances meeting requirement NF X08 050 Classe C. (2 layers)

CHARACTERISTICS OF PHOTOLUMINESCENCE :

Norms :
DIN67510 : Defines the characteristics to consider a product like photoluminescent.
NF X 08050 : Defines the minima characteristics of photoluminescent products usable for safety systems
Safety signs should be minimum of class C.

Characteristics et mesures of photoluminescences : :
Luminance (L) : Luminous intensity (in mcd) for a square meter of a surface.
Luminous decay (a) : Time in minutes from the activation end till threshold of 0.3 mcd/m² (=100 times limit perception of a human eye)

	Luminance (mcd/m^2)	
	10 min.	**60 min.**
Din 67510	20	2,8
NF X 08 050 class C	140	20
NF X 08 050 class D	260	35
PHOTOLIGHT 1 layer	117	16.4
PHOTOLIGHT - 2 layers	172	24
***PHOTOLIGHT* - 3 layers**	**277**	**36.9**

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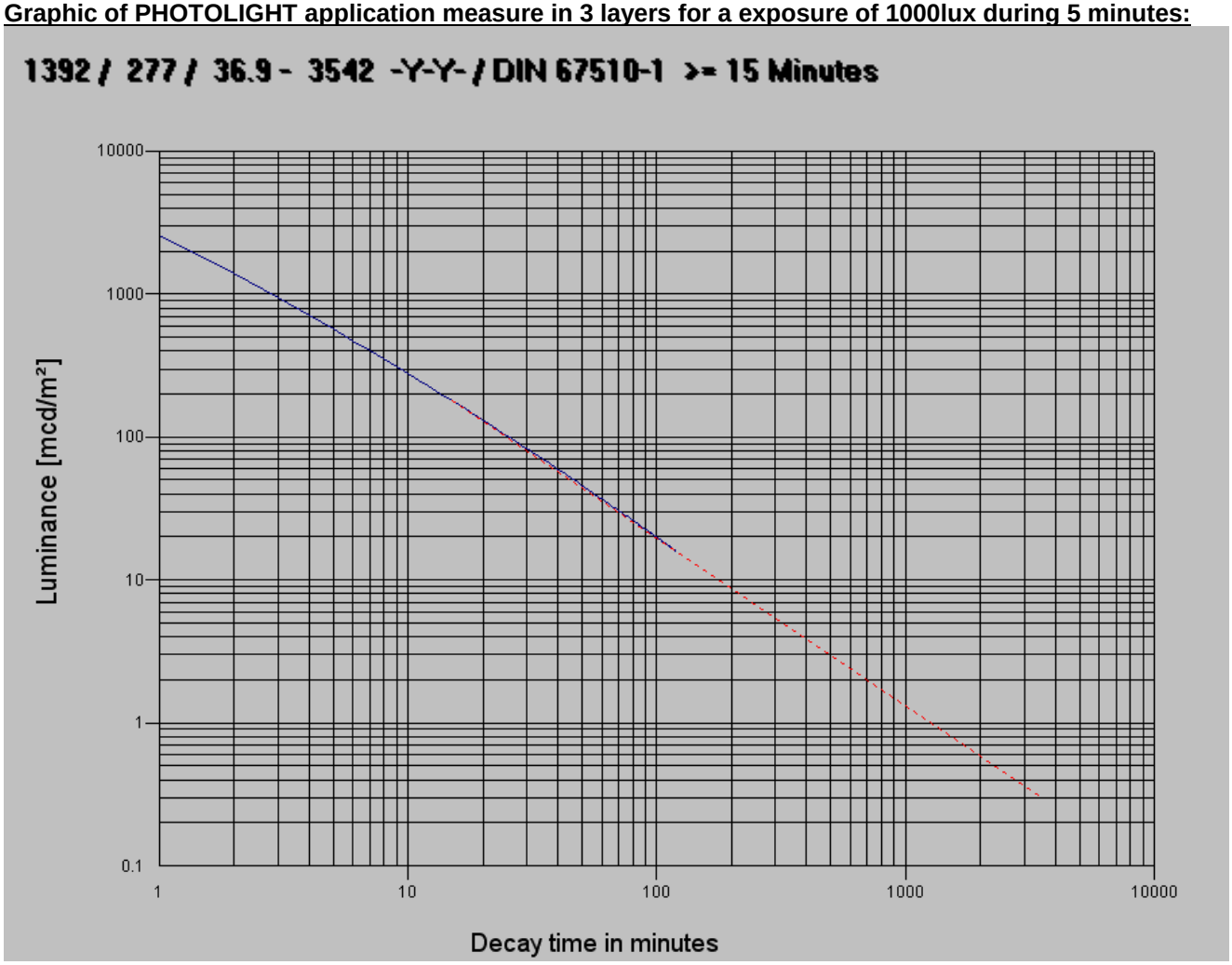
Graphic of PHOTOLIGHT application measure in 3 layers for a exposure of 1000lux during 5 minutes:



**Measure device : B520L de LMT - Lamp : Xenon 150W de EUROSEP*

- Luminance at 2 minutes : 1392 mcd/m^2
- Luminance at 10 minutes : 277 mcd/m^2
- Luminance at 60 minutes : 36.9 mcd/m^2
- Luminous decay : 3542 minutes (i.e. 59 hours)