

CHRYSO®Lumin P+

Luminescent particles for decorative concrete

Chryso
Decorative
Concrete

17/10/2024

DESCRIPTION

The CHRYSO®Lumin product line is based on CHRYSO's LuminTech® patent pending technology. **CHRYSO®Lumin P+** are luminescent particles.

CHRYSO®Lumin P+ particles have the property of absorbing UV light (natural or artificial) during the day, and emit some visible light in a dark or very low light environment. The particles' main component is a highly durable recycled polymer.

There are 2 **CHRYSO®Lumin P+** product references:

- **CHRYSO®Lumin P+** Jade >> Night color: Green Turquoise
- **CHRYSO®Lumin P+** Agate >> Night color: Blue Turquoise

The day colours imitates perfectly natural aggregates, while the night colours will reveal your concrete's brilliance at night *.

BENEFITS

- **CHRYSO®Lumin P+** particles beautify floors with a luminescent light in the dark, creating a pleasant environment and better visibility in the dark or dim light.
- It takes into account the users' visual comfort by demarking walkways (signage enhancement).
- It is durable and designed to be embedded in concrete (high pH environment).

FIELDS OF APPLICATION

- Exposed aggregates and polished concrete
- Garden paths and walkways
- Terraces
- Swimming pool surrounds
- Cycle paths and unlit roundabout

PACKAGING

- 2.5 kg bucket
- 12.5 kg bucket

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INDICATIVE INFORMATION

| | |
|------------------|------------------------------|
| Product Nature | Nature : Synthetic particles |
| Color | According to colour chart |
| Specific gravity | 1,400 ± 0,100 |

METHOD OF USE

- Available particle sizes (mm) : 2-4 / 4-8 / 6-10
- CHRYSO®Lumin P+** particles are spreaded manually on freshly casted concrete (200 g/sqm to 450 g/sqm are advised).
- The particles must then be incorporated in the concrete top surface by troweling.
- A compatible surface retarder is applied afterwards on matt concrete (no more bleeding): Deco Lav P02 with 2/4 mm particles, Deco Lav P03 with 4/8 mm particles or Deco Lav P04 with 6/10 mm particles.
- After surface retarder removal, **CHRYSO®Lumin P+** particles exposed will start "loading" immediately under ambient light.
- Always proceed with a trial before use.
- Follow carefully the CHRYSO®Deco Lav P use recommendations.

Standard Tests conducted on particles :

- Very good light emission lasting performance (DIN 67510-1 and NFX 08 050-1)
- Good resistance to shock fragmentation (Los Angeles EN 1097-2)
- Good resistance to wear by reciprocal friction (Microdeval test: EN 1097-1)
- Good freeze thaw cycle resistance (EN 1367-1)
- Low abrasiveness and low grindability (NF P 18-579)
- Low flattening coefficient (NF EN 933-3)

Test reports are available upon request.

Implementation :

Before applying **CHRYSO®Lumin P+**, make sure that:

- The surface will be under direct UV light exposure during the day.
- There will be no light pollution during the night: remove any direct or indirect lighting.
- Follow exposed aggregate concrete placement and finishing best practices (contact CHRYSO for any additional information).
- It is highly recommended to carry out a preliminary test by placing the treated substrate under the usual conditions to ensure that the luminescence is satisfactory. Contact our technical service.
- Only use a compatible surface retarder: CHRYSO®Deco Lav P.



PRECAUTIONS

- Stir the product before use.
- Store in a temperate location.
- The particles are not compatible with solvent based products.

SAFETY

Prior to any use, please read carefully the Material Safety Data Sheets.

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