



CHRYSO®Lumin P⁺

Luminescent particles for decorative concretes

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⁺ 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*.

Application Fields

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

Advantages

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

Method of use

- Well shake the can before use.
- 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 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.

Performance

- The UV absorption / light emission is a day-night* cycle that occurs without wear or aging of the particles.
- Apart from damage or dirt, this cycle can be reproduced indefinitely and has a long lasting performance.
- This phosphorescent character is guaranteed for 10 years.

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.

Indicative characteristics

- Nature: synthetic particles
- Available particle sizes (mm) : 4-8 / 6-10
- Density (20°C) : 1.4 ± 0.1
- Packaging : cans of 2.5 Kg and 12.5 Kg

Precautions

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: banish any direct or indirect lightening.
- Respect exposed aggregate concrete placement and finish best practices (contact CHRYSO for any additional information)
- Store in tempered environment.
- 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®DecoLav P.
- The particles are not compatible with solvent based products.

Safety

- Before use, refer to the Material Safety Data Sheet.

*LuminTech® technology is perceived in very low light conditions and preferably dark environment.