

APPLICATION GUIDE · LUMINOKROM WATER-BASED PAINT

Before you start

Getting the glow right is not complicated, but it is unforgiving. Two numbers decide the result: at least 400 g/m² of white undercoat, and at least 900 g/m² of LuminoKrom over it. Everything in this guide exists to protect those two numbers.



400

White undercoat, g/m²
minimum

900

LuminoKrom, g/m²
minimum

48 H

Before full traffic returns

What you need on site

- WHITE UNDERCOAT: water-based, enough for 400 to 600 g/m² of coverage.
- BRUSHES OR ROLLERS: water-based brush, or 6 to 8 mm short pile roller.
- CLEAN WATER: for tool cleaning. No solvent is needed.
- A THERMOMETER AND THE FORECAST: substrate 10 to 40 C, air 15 to 35 C, humidity under 85 per cent, and no rain due within 48 hours.
- AGGREGATE: only if the job calls for SRT 0.70 rather than the standard 0.50.
- TIME: 2 hours between coats and 48 hours before full traffic returns.



APPLICATION GUIDE · THE METHOD

Applying the paint

Work in order. The undercoat is not optional and it is not a primer, it is the reflective barrier that throws light back out of the marking.

Step by step

STEP	WHAT TO DO
1	Check no rain is forecast within 48 hours
2	Confirm the surface is dry, clean and 4 weeks old
3	Check substrate 10 to 40 C and air 15 to 35 C
4	Check humidity is under 85 per cent
5	Apply new white undercoat, minimum 400 g/m ²
6	Let the undercoat dry per its own supplier
7	Mix the LuminoKrom thoroughly in the pail
8	Brush a thick first coat in a zig-zag pattern
9	Wait 2 hours minimum
10	Apply a second thick coat, finish one direction
11	Roller instead: 3 to 4 coats, 6 to 8 mm pile
12	Add aggregate before the last coat for SRT 0.70
13	Clean all tools with water
14	Leave 48 hours before full traffic returns

● TWO THICK COATS, NOT THREE THIN ONES

Two thick brush coats should reach 900 g/m². A third is only there to lift the luminance if the first two came up short. Thin coats spread the same paint further and read as patchy the first night.





APPLICATION GUIDE • FAULTS AND CHECKS

Getting it right

Almost every complaint about photoluminescent paint traces back to the undercoat or the film thickness. Work through these before calling it a product fault.

What goes wrong and why

SYMPTOM	CAUSE AND FIX
Glow is weak and patchy	Undercoat thin, cracked or missing
Glow fades within hours	LuminoKrom underdosed, build to 900 g/m ²
Glow uneven along the line	Coats too thin, zig-zag then finish one way
Extra coats did not help	The undercoat is the limit, not the topcoat
Paint will not bond	Surface damp, dusty, oily or under 4 weeks old
Marking lifts early	Reopened early or applied outside the range
Drying is slow	Humid or poorly ventilated, allow more time

Before you leave site

CHECK	CONFIRM
Film thickness	Even and thick across the full run
Edges	No splashes on kerbs, grass or vegetation
Barriers	Area closed for the full 48 hours
Tools	Washed out with water before the paint sets

● CHECK IT AT NIGHT

The only real test is a dark one. An uneven or underdosed application looks acceptable in daylight and obvious after sunset, so go back and look before you sign the job off.

