

Wecryl 481 GlowLine Luminescent Marking



Brief description

Wecryl 481 GlowLine is a luminescent, thin-layer marking system. Wecryl 481 GlowLine absorbs energy from UV radiation, daylight or artificial light and acts as a light source in the dark, when it releases that energy again. This process can be repeated endlessly. Wecryl 481 GlowLine incorporates highly sophisticated pigments to meet the requirements of DIN 67510 part 1, class C, and can therefore be used to complement existing emergency lighting and escape route marking systems.

Material

2-component, fast-curing, white-pigmented, PMMA-based (polymethyl methacrylate) sealing resin

Properties and advantages

- Abrasion-resistant
- Permanently weather-resistant (UV-, hydrolysis- and alkali-resistant)
- Chloride-resistant
- Easy and fast application
- Fast-curing
- Solvent-free
- Luminescent pigments 100 % water-resistant
- Resistant to a large number of chemicals
- Tested and approved acc. to DIN 67510 part 1 (test report no.: 53508673/1)
 - o Class C rating
 - o Luminous intensity after 10 minutes: 207.15 mcd/m²
 - o Luminous intensity after 60 minutes: 28.42 mcd/m²
 - o Decay time: 3,074 minutes
- Meets the requirements of workplace regulation ASR A3.4/3

Areas of application

Wecryl 481 GlowLine is a component of the luminescent marking system. It is used as an escape route marking system in halls, workplaces, multi-storey car parks, subway stations and stairs. It can be applied to horizontal as well as vertical surfaces, such as walls or pillars.

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Pack size



Summer		Winter	
2.00 kg	Wecryl 481 GlowLine	2.00 kg	Wecryl 481 GlowLine
<u>0.06 kg</u>	Wekat 900	<u>0.10 kg</u>	Wekat 900
2.06 kg		2.10 kg	
Summer		Winter	
5.00 kg	Wecryl 481 GlowLine	5.00 kg	Wecryl 481 GlowLine
<u>0.10 kg</u>	Wekat 900	<u>0.30 kg</u>	Wekat 900
5.10 kg		5.30 kg	
Summer		Winter	
10.00 kg	Wecryl 481 GlowLine	10.00 kg	Wecryl 481 GlowLine
<u>0.20 kg</u>	Wekat 900	<u>0.40 kg</u>	Wekat 900
10.20 kg		10.40 kg	

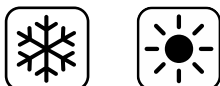
Colours

Yellowish white

Storage

Store products sealed in their original airtight container and in a cool, dry and frost-free place. The unopened products have a shelf life of at least 6 months from the date of delivery. Direct sunlight on the containers should be avoided, including on site. If only some of the contents are removed, reseal the containers so they are airtight.

Application conditions



Temperatures

The product can be applied within the following temperature ranges:

Product	Temperature range, in °C		
	Air	Substrate*	Material
Wecryl 481 GlowLine	-5 to +35	+3 to +35*	+3 to +30

* The substrate temperature must be at least 3 °C above the dew point during application and curing.

Humidity and moisture

The relative humidity must be ≤ 90 %.
The surface to be coated must be dry and ice-free.
The surface must be protected from moisture until the coating has hardened.

Reaction times and required amounts of Wekat 900

	Wecryl 481 GlowLine (at 20 °C, 2 % Wekat 900)
Pot life	approx. 15 min
Rainproof	approx. 45 min
Walkable/overlayable	approx. 60 min
Fully cured	approx. 3 h

Higher temperatures or greater proportions of Wekat 900 will shorten reaction times, while lower temperatures and smaller proportions of Wekat 900 will extend reaction times.

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The following table indicates the recommended amount of Wekat 900 required to adjust the curing reaction to the temperature.

Product	-10	-5	+3	5	10	15	20	25	30	35
Wecryl 481 GlowLine	-	-	3 %	3 %	3 %	2%	2%	2%	1 %	1 %

Consumption rates

Substrate

Smooth

Consumption

approx. 0.60 kg/m²

Technical data

Density:

approx. 1.45 g/cm³

Product application



Application equipment / tools

For mixing the product:

- Twin-paddle stirrer

For applying the product:

- Finishing roller (sheepskin roller, minimal shedding)

Substrate preparation

Wecryl 481 GlowLine is applied on top of a fully cured coat of WestWood Wecryl 176 Primer (white).

If Wecryl 481 GlowLine is to be applied to existing WestWood systems, Wecryl 488 Finish (white) must be used instead of Wecryl 276 Primer.



Then add the Wekat 900 while stirring at the slow-speed setting and mix for 2 minutes. Make sure that the product on the base and sides of the container is incorporated.

At product temperatures < 10 °C the product should be stirred for 4 minutes, as the Wekat 900 will take longer to dissolve.

Application

Horizontal

Use the finish roller to apply an even layer of the mixed material. Avoid fluctuating layer thicknesses.

Vertical

Before the catalyst is added, a maximum of 0.5 - 0.7 % w/w anti-flow additive may be mixed in with the resin to prevent drip-off on upstands.

If too little material is applied (inadequate layer thickness), curing problems may arise on account of interrupted polymerisation.



Product information sheet

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Cleaning

If work is interrupted or when it is completed, clean the tools thoroughly with WestWood Cleaning Agent within the pot life of the material (approx. 15 minutes). This can be done with a brush. Do not use the tools again until the cleaning agent has evaporated fully.

Simply immersing the tools in the cleaning agent will not prevent the material from hardening.

Information on safety and risks

Please refer to the safety data sheets for the products used.

General information

The above information, especially information about application of the products, is based on extensive development work as well as many years of experience and is provided to the best of our knowledge.

However, the wide variety of requirements and conditions on site mean that it is necessary for the applicator to test the product to ensure that it is suitable for the intended purpose. Only the most recent version of the document is valid. We reserve the right to make changes to reflect advances in technology or improvements to our products.

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