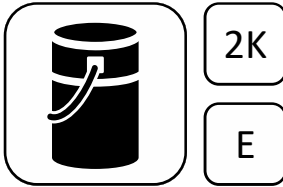




Product information

Wecryl 821 (formerly Wecryl 121 A)

Substrate stabiliser, ultra-low-viscosity PMMA resin for mineral substrates



Brief description

Wecryl 821 is a fast-curing, dust-suppressing, ultra-low viscosity resin with very good penetration on mineral substrates. The product reliably fills cracks and pores and ensures very good substrate stabilisation. Wecryl 821 is ideal for improving surface strength on porous substrates or after the substrate has been pre-treated with a scarifier.

Material

2-component, fast-reactive / fast-curing PMMA-based (polymethyl methacrylate) water repellent

Properties and advantages

- Easy and fast application
- Low viscosity
- Good residual dust control
- Hydrolysis- and alkali-resistant
- Fills pores, pinholes and cracks
- Very good wetting and penetrating properties
- Surface-stabilising: increases concrete strength by 18 - 250%

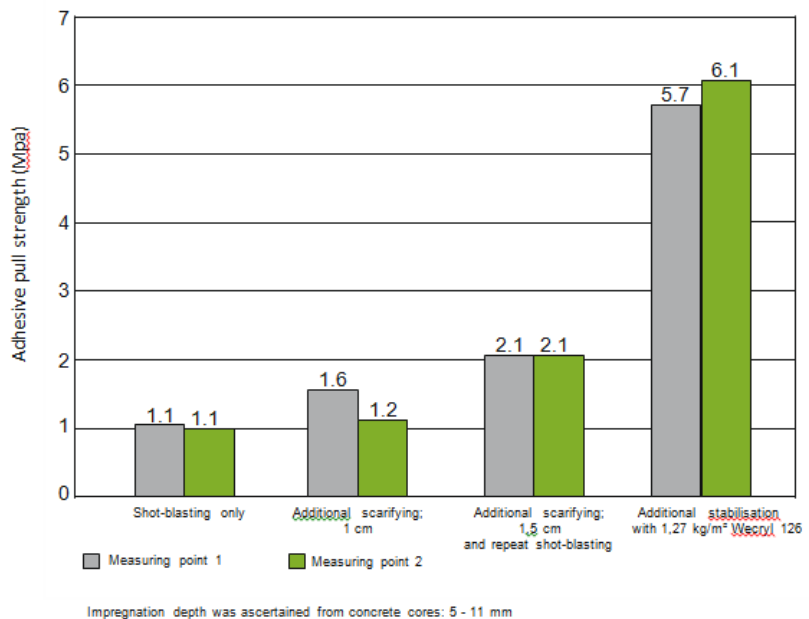
Areas of application

Wecryl 821 is used as a stabilising primer on critical substrates. For use on substrates with increased porosity, reliably fills pinholes and pores. It increases the wear resistance of mineral surfaces, and also reduces water absorption and soiling tendency.

Carbon dioxide diffusion is reduced and water vapour diffusion is ensured. Ideally Wecryl 821 should be used after the surface has been treated by scarifying or shot blasting.

Can also be used on high-compacted concrete and ZE screed.

Fills cracks up to 3 mm wide.





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Pack size



Summer:		Winter:	
10.00 kg	Wecryl 821	10.00 kg	Wecryl 821
<u>0.30 kg</u>	Weplus 900	<u>0.60 kg</u>	Weplus 900
10.30 kg		10.60 kg	

Summer:		Winter:	
25.00 kg	Wecryl 821	25.00 kg	Wecryl 821
<u>0.80 kg</u>	Weplus 900	<u>1.60 kg</u>	Weplus 900
25.80 kg		26.60 kg	

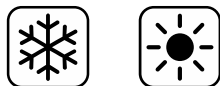
Colours

Unpigmented

Storage

Store products sealed in their original airtight container and in a cool, dry and frost-free place. Unopened products have a shelf life of at least 6 months. 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 821	+5 to +30	+5 to +30*	+10 to +30

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

Humidity

The relative humidity must be ≤ 90 %.

The surface to be coated must be dry. We recommend drying the substrate with a flame stripper (arc width up to 1.50 m). Wecryl 821 must be applied as soon as the substrate has cooled.

The surface must be protected from moisture until the coating has hardened.

Substrates, e.g. young concrete, containing residual moisture can be coated provided they have developed sufficient strength and the substrate is properly prepared. Please refer to the appropriate application guide for information about correct surface preparation.

Reaction times and required amounts of catalyst

	Wecryl 821 (at 20 °C, 3% Weplus Catalyst)
Pot life	approx. 15 Min.
Rainproof	approx. 30 min
Can be walked on/ overcoated	approx. 45 min
Curing time	approx. 2 h

Higher temperatures or greater proportions of catalyst will reduce reaction times, while lower temperatures and smaller proportions of catalyst will

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increase reaction times.

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

Product	Substrate temperature in °C; required amounts of catalyst in % w/w (guide)												
	-10	-5	+3	5	10	5	20	25	30	35	40	45	50
Wecryl 821	-	-	8%	7%	5%	3%	3%	2%	1%	-	-	-	-

Consumption rates

Substrate

smooth (per coat)

fine-sandy, shot blasted (per coat)

Important: Avoid creating puddles!

Consumption

0.20 – 0.50 kg/m²

0.30 – 1.20 kg/m²

Technical data

Density:

0.97 g/cm³

Viscosity: at 23 °C

5 - 15 mPa*s

Product application



Application equipment / tools

For mixing the product:

- Mixing tool with twin-paddle stirrer

For applying the product:

- Rubber squeegee, use back and do not skim firmly
- Sheepskin roller for laying off excess material
- Brush (only for areas not accessible with the sheepskin roller)

Substrate preparation

Wecryl 821 must only be applied to a prepared substrate.

Please refer to the appropriate application guide for information about correct surface preparation.

Mixing

First stir the tub contents thoroughly.

Then add the Weplus Catalyst 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 also mixed in.



Keep the residual amount of material as small as possible, otherwise foaming and smoke formation may occur!

Application

Ideally Wecryl 821 is applied evenly with a rubber squeegee. Excess material must be scraped off sharply with the rubber squeegee and more applied if necessary. The resin rapidly penetrates the surface. Avoid creating puddles. If the product disappears completely into the substrate in patches, more resin can be applied wet in wet until a thin film is visible. Once the first layer has hardened, a second, very thinly skimmed layer may be applied. Wecryl 821 is not sufficient as a primer if Wecryl/Weproof systems are to be applied subsequently.



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Curing problems may occur if puddles are formed.

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 product to be tested 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 that reflect advances in technology or offer improvements to our products.

Revised: 01 April 2019