

Wecryl 178 Primer for Damp Substrates



Brief description

Wecryl 178 is a fast-curing, water-vapour-impermeable primer that acts as a barrier on damp mineral substrates in preparation for the subsequent application of WestWood waterproofing or surfacing products.

Material

2-component, fast-curing, PMMA-based primer (PMMA = polymethyl methacrylate)

Properties and advantages

- Primer for concrete substrates and cement floors affected by damp underneath or behind
- Water vapour permeability: $S_d > 50$ (class III according to EN 1504-2)
- Easy to apply
- Fast-curing
- Very good adhesion on absorbent substrates
- Hydrolysis- and alkali-resistant
- Solvent-free

Tested according to the DAfStb guideline (issue 2001), part 4, section 5.5.15

- Bond behaviour in the presence of rising damp

Areas of application

Wecryl 178 is used as a barrier on damp, mineral substrates, e.g. concrete substrates or cement floors.

Pack size

Summer:		Winter:	
5.00 kg	Wecryl 178	5.00 kg	Wecryl 178
<u>0.20 kg</u>	Weplus catalyst (2 x 0.1 kg)	<u>0.30 kg</u>	Weplus catalyst (3 x 0.1 kg)
5.20 kg		5.30 kg	
Summer:		Winter:	
10.00 kg	Wecryl 178	10.00 kg	Wecryl 178
<u>0.30 kg</u>	Weplus catalyst (3 x 0.1 kg)	<u>0.60 kg</u>	Weplus catalyst (6 x 0.1 kg)
10.30 kg		10.60 kg	

Colours

Wecryl 178 is available in the following standard colours:

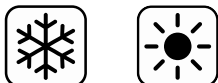
- Unpigmented and white

Storage

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

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Application conditions



Temperatures

The product can be applied within the following temperature ranges:

Product	Temperature range, in °C		
	Air	Substrate*	Material
Wecryl 178	+3 to +35	+3 to +50*	+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 $\leq 90\%$.

The surface to be coated must be dry or matt damp.

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

Definition of concrete moisture according to the DAfStb guideline (issue 2001), part 2, section 2.3.5

"Dry": A new fracture, about 2 cm in depth, must not appear to lighten (as a result of drying). No condensation must appear overnight under a PE film (500 mm x 500 mm) bonded to the edge, and the concrete must not appear to darken.

"Damp": The surface looks matt damp, but without a shiny film of water on the surface; the pore system of the concrete substrate must not be saturated with water, i.e. any water droplets applied to the surface must be absorbed and the surface must regain its matt appearance soon afterwards.

Substrates, e.g. young concrete, containing residual moisture can be coated provided they have developed sufficient strength and the substrate is properly prepared.

Reaction times and required amounts of catalyst

	Wecryl 178 (at 20 °C, 3 % catalyst)
Pot life	approx. 10 minutes
Rain-proof	approx. 30 minutes
Walkable/overlayable	approx. 30 minutes
Fully cured	approx. 2 hours

Higher temperatures or greater proportions of catalyst will reduce reaction times, while lower temperatures and smaller proportions of catalyst will 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	+15	+20	+25	+30	+35	+40	+45	+50
Wecryl 178	-	-	6%	6%	4%	3%	3%	2%	2%	1%	1%	1%	1%

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Consumption rates

Substrate	Consumption
Smooth	0.40 kg/m ²
Fine-sandy	0.50 kg/m ²
Rough	0.80 kg/m ²

Technical data

Density (unpigmented):	1.06 g/cm ³
Density (white):	1.08 g/cm ³

Product application



Application equipment / tools

For mixing the product:

- Twin-paddle stirrer

For applying the product:

- Sheepskin roller
- Brush (only for areas not accessible with the sheepskin roller)

Substrate preparation

Make sure that there is no standing water on the surface. The product must therefore be applied only to matt damp substrates.

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

Mixing

First stir the tub contents thoroughly.

Then add the 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 mixed in.

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



Application

Use the sheepskin roller to apply an even and film-forming coat of primer.

Avoid creating puddles.

Once the coating has cured, apply a second coat to cover any defects (bubbles, areas not fully covered).

Preparation for subsequent layers

For subsequent application of Wecryl 242 - repair and levelling mortar:

Once the primer has hardened, apply a second coat of primer and top with a little quartz sand (0.1 – 0.2 kg/m² at 0.2 – 0.7 mm) while the primer is still wet.

The sand topping creates the necessary key, i.e. roughness, for application of the mortar.

Never apply the quartz sand to the first coat of primer.

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Cleaning

When work is interrupted or completed clean the tools thoroughly with Weplus Cleaning Agent within the pot life of the material (approx. 10 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.

Revised: 27.02.2017