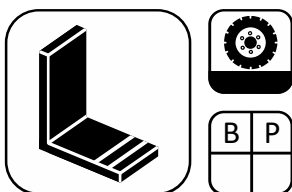


Wecryl Thin-Layer System



Brief description

The Wecryl Thin-Layer System is designed as surface protection and to enhance the appearance of floor areas, e.g. in multi-storey car parks and on balconies.

It offers a wide range of design options and can feature one or more colours and patterns as well as toppings.

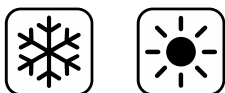
Properties and advantages

- Wide range of design options including patterns and markings
- Choice of various RAL colours
- Toppings (chips, sand etc.) can be applied to create the desired non-slip properties
- Abrasion-resistant and mechanically durable
- Resistant to most commonly used acids and alkali solutions
- Permanently weather-resistant (resistant to high and low temperatures, UV rays, hydrolysis)
- Easy and fast application
- Fast-curing
- Solvent-free

Applications

- Surface protection as well as visual design of surfaces subjected to pedestrian and vehicular traffic
- Multi-storey car parks and residential buildings (balconies, loggias, and access galleries)

Application conditions



Temperatures

The system can generally be applied within an ambient temperature range between +3 °C and +35 °C. Many products are also suitable for application at sub-zero temperatures. Please refer to the table below for exact details.

Product	Temperature range, in °C		
	Air	Substrate*	Material
Wecryl 110	-5 to +35	-5 to +50*	+3 to +30
Wecryl 178	+3 to +35	+3 to +50*	+3 to +30
Wecryl 176	+3 to +35	+3 to +50*	+3 to +30
Wecryl 176 K	+3 to +35	+3 to +50*	+3 to +30
Wearing layer			
Wecryl 488	-5 to +35	+3 to +40*	+3 to +30

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

The substrate temperature must not be less than +3 °C if a topping is applied to the surface. Reaction problems can occur at lower temperatures.

Moisture

The relative humidity must be ≤ 90%.

The surface to be coated must be dry and ice-free.

Wecryl Thin-Layer System

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

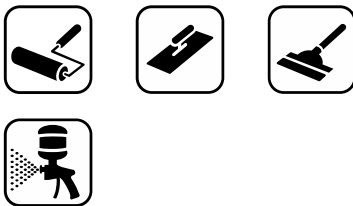
Consumption and reaction times

Product	Consumption [kg/m²]		
Primer layer	Substrate smooth	fine-sandy	coarse
Wecryl 110	approx. 0.5	approx. 0.6	approx. 0.7
Wecryl 178	approx. 0.4	approx. 0.5	approx. 0.8
Wecryl 176	approx. 0.4	approx. 0.5	approx. 0.8
Wecryl 176 K	approx. 0.8	approx. 0.9	approx. 1.0

Wearing layer			
WestWood® Chips	up to max. 0.05		
	Substrate smooth	Sanded	
Wecryl 488	approx. 0.6	approx. 0.6 to 0.8	

Product	Reaction time (approx. values at 20 °C)			
	Pot life	Rainproof	Overlayable	Curing time
Wecryl 110	12 min	30 min	45 min	3 hours
Wecryl 178	10 min	30 min	30 min	2 hours
Wecryl 176	10 min	30 min	30 min	2 hours
Wecryl 176 K	10 min	30 min	30 min	2 hours
Wecryl 488	15 min	45 min	1 hour	3 hours

Application tools



Product	Application tool
Wecryl 110	Sheepskin roller
Wecryl 178	Sheepskin roller
Wecryl 176	Sheepskin roller
Wecryl 176 K	Smoothing trowel
Wecryl 488	Finish roller or hard rubber blade (for topped surfaces)
WestWood® Chips	hopper gun

Substrate preparation and primer selection

Correct substrate preparation and a flawless primer coating are essential for ensuring the functional durability of the WestWood® System.

Generally the substrate must be sound, dry, and free from loose and adhesion-reducing particles. That is why coats of paint, cement slurry, dirt and grease, for instance, must always be removed completely. As a rule this is done by shot blasting, scarifying or grinding and then vacuuming off the debris.

The primer coating then applied creates an ideal barrier and enables optimum adhesion between the substrate and the WestWood® System. Please refer to the Application Guidelines - Substrate for the correct substrate preparation and primer selection.

Primer layer

The primer is applied to the prepared substrate.

Avoid small air bubbles (pin holes) can be closed or prevented by an application of substrate stabiliser Wecryl 821 to the entire area.

Wecryl Thin-Layer System

Wecryl 110 – Primer for asphalt

Wecryl 178 – Primer for damp substrates

Wecryl 176 – Primer for absorbent substrates

Use the sheepskin roller to apply an even film-forming coat of primer. Avoid creating puddles of primer.

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

Wecryl 176 K – Primer / Scratch-coat for highly absorbent mineral substrates

Apply an even and film-forming coat of primer with the smoothing trowel, using the particle size as a guide to the thickness of the layer. Any build-up of material should be avoided.

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

Levelling

Once the primer has hardened use Wecryl 810, Wecryl 333 or Wecryl 842 to level any cavities, height differences, broken and removed tiles or negative slopes. Please refer to the application guidelines for the substrate. Use Wecryl 846 for concrete repairs in structural applications (horizontal only).

Wearing layer

Depending on the particular requirements, apply Wecryl 488 either topped with chips or quartz sand a wearing layer.

Wecryl 488 – Finish + WestWood® Chips – Decorative topping (slip resistance up to R 10)

This build-up creates areas with sufficient slip resistance for domestic use that are also easy to clean using common domestic products.

Use the finish roller to apply an even layer of the mixed material (approx. 0.6 kg/m²) to the hardened self-levelling mortar. Avoid fluctuating layer thicknesses. Immediately afterwards use a hopper spray gun to apply WestWood® Chips to the liquid Finish. Depending on the desired surface design, the coloured chips can first be mixed and a greater or lesser amount applied. However, applying an excess quantity should be avoided, i.e. when applied, the chips should not form a continuous coating at any point.

Wecryl 488 – Finish + WestWood® quartz sand (Slip resistance up to R 12)

A quartz sand topping sealed with Finish offers greater slip resistance with increased roughness height and is used predominantly for escape routes in residential and commercial buildings as well as in multi-storey car parks.

To achieve this, apply an even, all-over first coat of Wecryl 488 (approx. 0.6 kg/m²) with a finish roller. Top immediately with WestWood® Quartz Sand while the finish is still wet and liquid.

Once the material has hardened, vacuum off the loose sand and use a finish roller to seal the entire surface with a final coat of finish (approx. 0.6 to 0.8 kg/m² depending on the grain size of the topping).

Wecryl Thin-Layer System

For an enhanced appearance a hard rubber blade can also be used to apply the Finish before laying off with a finish roller.

Design options

WestWood® systems offer excellent scope for creative designs. Wecryl 488 can be used to create surfaces in one or more colours. The Finish also allows any pattern or markings to be incorporated. In conjunction with topping materials there are many additional design options.

Cleaning the tools

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. 10 minutes). This can be done with a brush.

The tools are ready to be used again as soon as 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 to reflect advances in technology or improvements to our products.

Appendix

System drawing

Rev.: 01 February 2022

Wecryl Thin-Layer System

Substrate

1 e.g. concrete, mechanically pre-treated

Primer layer

2 e.g. Wecryl 176

Wearing layer

3 a) Wecryl 488 with WestWood® Chips
(slip resistance up to R 10)

or alternatively with

b) Wecryl 488 + WesWood® quartz sand
(Slip resistance up to R 12)

