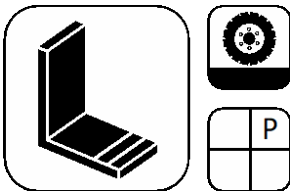
Installation guideline

Wecryl Surface Protection System OS 8



Brief description

The Wecryl Surface Protection System OS 8 is designed as rigid surfacing for areas that are subject to vehicular traffic and heavy mechanical wear and that are not at risk from cracking.
It offers a wide range of design options with one or more colours and patterns. Its outstanding features also include its superior mechanical and chemical resistance. The Wecryl Surface Protection System OS 8 has been tested and certified in accordance with DAfStb (German Committee on Reinforced Concrete), the SIB 2001 directive (Protection and Repair of Concrete Elements), DIN V 18026 and EN 1504-2.

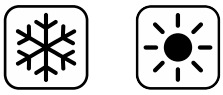
Properties and advantages

- Abrasion-resistant and mechanically durable
- Resistant to chemicals and petrol resistant
- Permanently weather-resistant (resistant to high and low temperatures, UV rays, hydrolysis)
- Easy and fast application
- Reaction to fire classification C_{fl}-s1 according to EN 13501-1
- Solvent-free
- Available in any RAL colour
- Fast-curing

Applications

- Surface protection for areas in multi-storey car parks that are subject to pedestrian and vehicular traffic.
- Driving lanes and parking bays in internal decks and underground car parks that are and are not subject to weathering

Application conditions



Temperatures

The system can generally be applied within an ambient temperature range between +3 °C and +35 °C. Please refer to the table below for exact details.

Product	Temperature range, in °C		
Primer layer	**Air**	**Substrate***	**Material**
Wecryl 108	-5 to +35	+3 to +35*	+3 to +30
Wearing layer			
Wecryl 408	-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.
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.
The surface must be protected from moisture until the coating has hardened.

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Consumption and reaction times

Product	Consumption [kg/m²]		
Primer layer	Substrate smooth	fine-sandy	coarse
Wecryl 108	approx. 0.5	approx. 0.6	approx. 0.7
Topping layer			
Wecryl 408	approx. 0.5		
Top sealer			
Wecryl 408	approx. 0.5 - 0.7		

Product	Reaction time (approx. values at 20 °C)			
	Pot life	**Rainproof**	**Overlayable**	**Curing time**
Wecryl 108	12 min	30 min	30 min	2 hours
Wecryl 408	15 min	45 min	1 hour	3 hours

Application tools

Product	Application tool
Wecryl 108	Sheepskin roller
Wecryl 408	notched rubber squeegee (notch height 3 mm) for the topping layer (1st layer) Rubber squeegee and finish roller for the top sealer (2nd layer)

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 roughness height of the surface must then be determined using the sand surface method, and the values for additional layer thickness must be complied with (see DafStb guidelines (published 2001), "part 3, section 3.2.5 - Determination of roughness height" + table 5.2).
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.

Primer layer

The primer is applied to the prepared substrate.
The primer coating should always cover a little more area than the products applied subsequently, i.e. the finish applied later must not extend beyond the primer at any point.

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

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Wecryl 108 - Primer for durable wearing layers
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).

Levelling

Once the primer has hardened, use Wecryl 810 or Wecryl 333 or Wecryl 842 to make good any areas of damage and/or height differences. Please refer to the application guidelines for the substrate.
Use Wecryl 846 for concrete repairs in in structural applications (horizontal only).

Wearing layer

Wecryl 408 - Topping sealer, high-performance
Apply an even first layer of Wecryl 408 (consumption approx. 500 g/m²) using a notched rubber squeegee (notch height 3 mm) and lay of with a finish roller if required. Immediately afterwards, broadcast WestWood quartz sand (particle size 0.7 - 1.2 mm) in excess (consumption approx. 7.0 kg/m²) onto the layer of Wecryl 408 while this is still wet.
Once the resin has cured, vacuum off the excess sand and apply a second layer of Wecryl 408 as finish (approx. 500 - 600 g/m²), spread over the surface with a rubber squeegee and then lay off with a finish roller.

Design options

WestWood systems offer excellent scope for creative designs. Wecryl 408 can be used to create surfaces in one or more colours. The product also allows any pattern or markings to be incorporated.

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. 12 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.

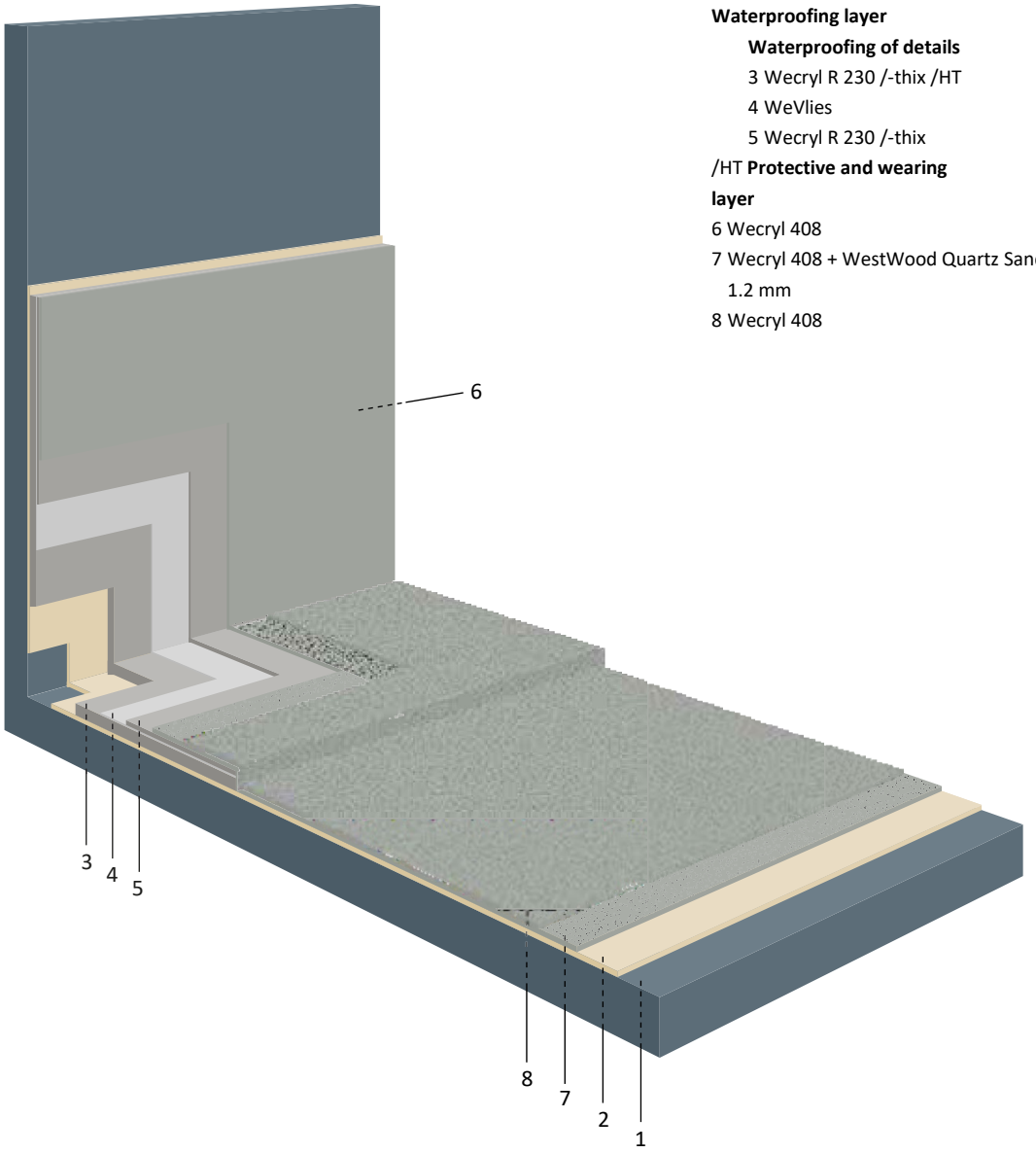
Appendix

System drawing
Rev.: 01 February 2022

System drawing

Wecryl Surfacing System OS 8

Substrate
1 e.g. Concrete **Primer layer**
2 Wecryl 108
Waterproofing layer
Waterproofing of details
3 Wecryl R 230 /-thix /HT
4 WeVlies
5 Wecryl R 230 /-thix
/HT **Protective and wearing layer**
6 Wecryl 408
7 Wecryl 408 + WestWood Quartz Sand topping 0.7 – 1.2 mm
8 Wecryl 408



* to avoid differences in height in the fleece reinforced detail waterproofing to the surface area, we recommend to sink the detail waterproofing into the substrate (e.g. using a milling machine).

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