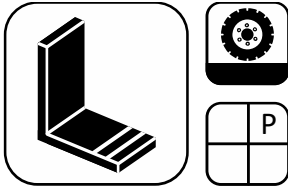


Wecryl Surface Protection System OS 8



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 German guidelines and standards TR-Instandhaltung, DAfStb-RiLi SIB 2001 (German Committee on Reinforced Concrete - Protection and Repair of Concrete Elements) and DIN EN 1504-2.

Properties and advantages

- Abrasion-resistant and mechanically durable
- Extended temperature range up to 45 °C substrate temperature
- 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_{fi}-s1 according to EN 13501-1
- Solvent-free
- Choice of various colours
- Fast-curing

Chemical resistance

Petrol	72h	++
Heating oil	72h	++
All hydrocarbons, including groups 2 and 3, except for 4a and 4b and used engine and gearbox oil	72h	++
Crude oil	72h	++
All alcohols and glycol ether +Gr.5; 5b	72h	++
Biodiesel as specified in DIN EN 14214	72h	++
Aliphatic aldehydes...	72h	++
Organic acids (except formic acid) and their salts (in aqueous solution)	approx.8h	-
20% H ₂ SO ₄	72h	++
32% HCl (hydrochloric acid)	72h	+
20% NaOH	72h	++
20% NaCl	72h	++
Amines	72h	++
Aqueous organic surfactants	72h	++
E10 petrol	72h	++
Iron (III) chloride solution 40%	72h	++
Ethyl acetate	approx.15h	-

Note:

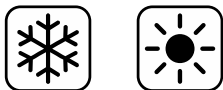
++	resistant
+	resistant, but with discoloration
-	limited resistance
--	not resistant

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
- Other surfaces to be coated (not in accordance with WHG = Water Resources Act) such as petrol stations, oil pans, etc.

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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		
	Air	Substrate*	Material
Primer layer Wecryl 171	+3 to +35	+3 to +40*	+3 to +30
Wearing layer Wecryl 409	-5 to +40	+3 to +45*	+3 to +35

* 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.

Consumption and reaction times

Product	Consumption [kg/m ²]		
	Substrate smooth	fine-sandy	coarse
Wecryl 171	approx. 0.5	approx. 0.6	approx. 0.7
Topping layer Wecryl 409	approx. 0.85		
Top sealer Wecryl 409	Quartz Sands 0,70 – 1,20 mm approx. 0.8	Hard Grain 1,00 – 2,00 mm approx. 1.5	Hard Grain 1,00 – 3,00 mm approx. 2.0

Product	Reaction time (approx. values at 20 °C)			
	Pot life	Rainproof	Overlayable	Curing time
Wecryl 171	15 min	30 min	45 min	2 hours
Wecryl 409	12 min	30 min	1 hour	3 hours

Application tools



Product	Application tool
Wecryl 171	notched rubber squeegee (notch height 3 mm) and finish roller
Wecryl 409	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

Wecryl Surface Protection System OS 8

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.

Wecryl 171 - Low-viscosity primer for mineral substrates

Apply the primer evenly with a notched rubber squeegee (notch height 3 mm) to produce a continuous film. Avoid creating puddles of primer. Once the primer has cured, apply a second coat to cover any defects (bubbles, areas not fully covered) or a scratch-coat.

Levelling

Once the primer has hardened, use Wecryl 123 K to make good any areas of damage and/or height differences. Please refer to the application guidelines for the substrate.

Use Wecryl 846 or Wecryl 885 for concrete repairs in structural applications (horizontal only).

Wearing layer

Wecryl 409 - Finish, pigmented, highly resistant to chemicals

Apply an even first layer of Wecryl 409 (consumption approx. 850 g/m²) using a notched rubber squeegee (notch height 3 mm) and lay off with a finish roller if required. Immediately afterwards, broadcast WestWood quartz sand (particle size 0.7 - 1.2 mm) in excess (consumption approx. 4.0 kg/m²) onto the layer of Wecryl 409 while this is still wet.

Alternatively, WestWood Hard Grain (grain size 1-3 mm) can be scattered in excess (consumption approx. 5.0 kg/m²).

Once the resin has cured, vacuum off the excess sand and apply a second layer of Wecryl 409 as finish (approx. 800 – 2,000 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 409 can be used to create surfaces in one or more colours. The product also allows any pattern or markings to be incorporated.



Installation guideline

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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.

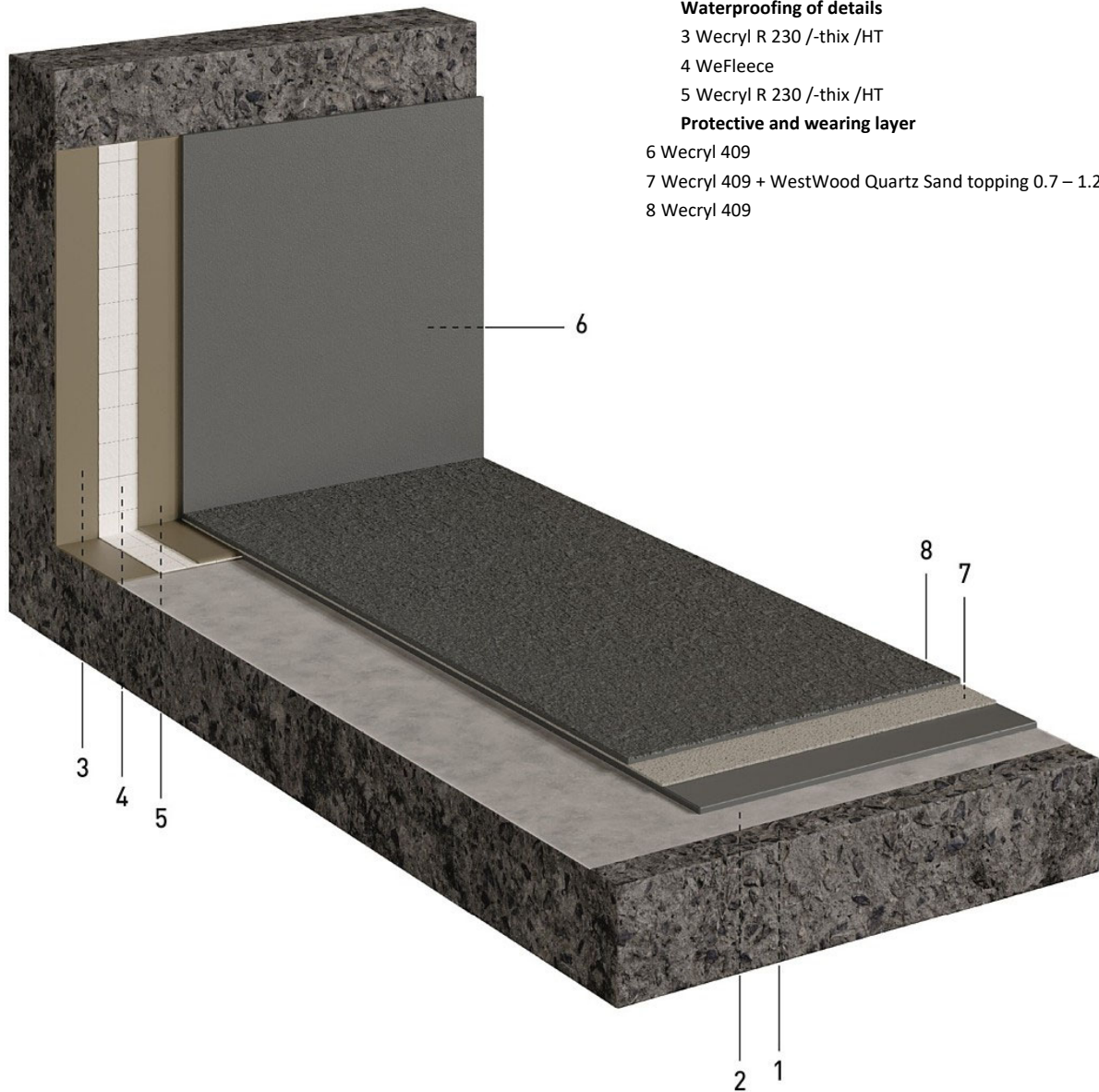
However, the wide variety of requirements and conditions on site mean that it is necessary for the product to be tested to ensure that it is suitable for the intended purpose. Only the most recent version of the document is valid. We reserve the right to make changes to reflect advances in technology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

Appendix

System drawing

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Wecryl Surface Protection System OS 8



Substrate

1 e.g. Concrete

Primer layer

2 Wecryl 171

Waterproofing layer

Waterproofing of details

3 Wecryl R 230 /-thix /HT

4 WeFleece

5 Wecryl R 230 /-thix /HT

Protective and wearing layer

6 Wecryl 409

7 Wecryl 409 + WestWood Quartz Sand topping 0.7 – 1.2 mm

8 Wecryl 409

* 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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