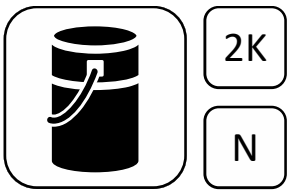
Product information sheet

Wecryl 409

Finish, pigmented, highly resistant to chemicals



Brief description

Wecryl 409 is used as a wearing layer in WestWood surface protection systems.
Wecryl 409 is a high-grade surface sealant that is able to withstand mechanical stresses and is highly resistant to chemicals, and can be supplied in any colour. It is particularly suitable as a wearing layer in multi-storey car parks and industrial areas. Different topping materials can be applied to achieve the desired non-slip properties.

Material

2-component, fast-curing, pigmented PMMA-based (polymethyl methacrylate) sealing resin

Properties and advantages

- Expanded temperature range up to 45 °C substrate temperature
- Highly resistant to chemicals such as petrol
- Toppings (quartz sand, Hard Grain) can be applied to create the desired non-slip properties
- Extremely abrasion-resistant
- Permanently weather-resistant (UV-, hydrolysis- and alkali-resistant)
- Chloride-resistant
- Easy and fast application
- Rapid curing
- Solvent-free

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_2SO_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

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Areas of application

Applications of Wecryl 409 include use in the Wecryl Surface Protection System OS 11b as a highly chemical-resistant, easy to clean and flame-resistant surface sealant. It is particularly suitable as surfacing for parking bays and traffic lanes, and as surfacing in industrial areas.

Pack size

Summer:		Winter:	
10.00 kg	Wecryl 409	10.00 kg	Wecryl 409
0.20 kg	Wekat 900	0.40 kg	Wekat 900
10.20 kg		10.40 kg	

Summer:		Winter:	
25.00 kg	Wecryl 409	25.00 kg	Wecryl 409
0.50 kg	Wekat 900	1.00 kg	Wekat 900
25.50 kg		26.00 kg	

Standard colours

7030 stone grey
7032 pebble grey
7035 light grey
7043 traffic grey B
Other colours are available on request

For production reasons there may be some colour variation between individual batches and the available RAL colour charts. We therefore recommend using products from the same batch for any one project.

Storage

Store products sealed in their original airtight container, in a cool, dry, frost-free place. The products have a shelf life of at least 6 months from the date of delivery when unopened. 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 in the following temperature ranges:

Product	Temperature range, in °C		
	Air	Substrate*	Material
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.

Humidity and moisture

The relative humidity must be ≤ 90%.
The surface to be coated must be dry and free of ice.
The surface must be protected from moisture until the coating has hardened.

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Curing times and WeKat 900 catalyst amount

	Wecryl 409 (at 20 °C)
Pot life	approx. 12 min.
Rainproof	approx. 30 min.
Can be walked on / overlaid	approx. 60 min.
Fully cured	approx. 3 hours

Higher temperatures or greater proportions of Wekat 900 will shorten the curing times, while lower temperatures and smaller proportions of Wekat 900 will extend the curing times.
The following table indicates the recommended amount of Wekat 900 required to adjust the curing reaction to the temperature.

Product	**Substrate temperature (°C); required amounts of WeKat 900 catalyst in % w/w (reference values)**									
	+3	5	10	15	20	25	30	35	40	45
Wecryl 409	4 %	4 %	4 %	2 %	2 %	2 %	1 %	1 %	1 %	1 %

Application rate

Substrate	**Consumption**
Smooth	0.85 kg/m²
Topped areas	0.80 kg/m² – 1.0 kg/m²

Technical data

Density: (The density will vary with the colour)	1.31 g/cm³

Product application

Application equipment/tools

To mix the product:

- Twin-paddle stirrer

1-layer product application, or first of two layers, with:

- Notched rubber squeegee 3 mm

Product application of second layer (finishing of topped areas) with:

- Hard rubber blade

Substrate preparation

The finish is applied on top of the cured primer, PESPL, or topped protective or wearing layer.

Mixing

First stir the tub contents thoroughly.
Then add Wekat 900 while stirring at the slow-speed setting and mix for at least 2 minutes. Make sure that the product is incorporated on the bottom and sides of the container.
At product temperatures < 10 °C the product should be stirred for at least 4 minutes, as the Wekat 900 will take longer to dissolve.

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Application
Use the rubber squeegee with 3 mm notches to apply the mixed material (approx. 0.85 kg/m²). Avoid variations in layer thickness.

Finish design options:

Increased non-slip properties:

Top the applied finish or self-levelling mortar, while still liquid, with dry quartz sand. Particle sizes of between 0.4 and 0.8 mm or 0.7 and 1.2 mm can be used, depending on the desired roughness. Once the previous layer has cured, vacuum off the loose sand and use a smoothing trowel or hard rubber blade to cover the entire surface with a final coat of finish (approx. 0.8 to 1.0 kg/m² depending on the particle size of the topping).

Cleaning

When work is interrupted or 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. Do not use the tools again until the cleaning agent has evaporated completely. 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 preceding information, especially with regard to the application of the products, is based on extensive development work and many years of experience and is provided as the best of our knowledge.
However, the wide variety of requirements and conditions on site mean that it is necessary for the installer to test the product to verify its suitability for the intended purpose. Only the most recent version of this document is valid. We reserve the right to make changes to reflect advances in technology or improvements to our products.

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