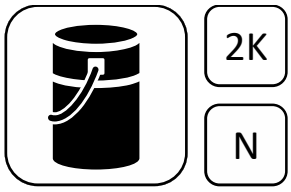
Product information sheet

Wecryl 413

Textured Surfacing High Performance



Brief description

Wecryl 413 is a highly abrasion-resistant and extremely skid-resistant coating based on polymethyl methacrylate (PMMA) that was developed specifically for use on roads, traffic zones and in multi-storey car parks where greater safety and skid-resistance are required. The optimum, skid-resistant surface texture is achieved due to the outstanding properties of the particles already incorporated as a guide to layer thickness, which helps to shorten braking distances considerably.

Material

2-component, rapid-curing, flexibilised, pigmented coating based on polymethyl methacrylate (PMMA) filled with bauxite (1 - 3 mm)

Properties

- Maximum abrasion-resistance, PSV of aggregate 70 - 80
- Superior skid resistance and grip*:
  R class: R13 (determined according to DIN EN 16165:2023-02 Annex B)
  V class: V8 (determined in accordance with DIN 51130:2023-03)
  SRT value: > 65 (determined in accordance with DIN EN 13036-4:2011-12)
- Resistant to mechanical stress
- Chloride-resistant
- Easy and fast application
- Fast-curing
- Solvent-free

* The specified values were determined in the laboratory on a test plate and may differ considerably in comparative measurements. It should be noted that only a small range can be measured with these methods. This should be taken into account in particular for rough surfaces (over 1.2 mm according to the volumetric method) when deciding on the applicability of this method. It is therefore recommended to consult with the client/planner in advance and, if necessary, to create a test area.

Areas of application

Wecryl 413 is designed to increase traffic safety through increased skid resistance and wear resistance. Areas of application include roads, traffic zones and multi-storey car parks where the following features apply: Crossroads, tight corners, roundabouts, steep slopes and ramps.

Pack size

Summer:		Winter:	
15.00 kg	Wecryl 413	15.00 kg	Wecryl 413
0.20 kg	Wekat 900	0.40 kg	Wekat 900
15.20 kg		15.40 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.

Product information sheet

Wecryl 413

Textured Surfacing High Performance

Storage

Store products sealed in their original airtight container and in a cool, dry and frost-free place. The unopened products have a shelf life of at least 12 months from the date of 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.

Application conditions

Temperatures

The product can be applied within the following temperature ranges:

Product	Temperature range, in °C		
	Air	Substrate*	Material
Wecryl 413	-10 to +35	-5 to +40*	+3 to +30

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

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.

Reaction times and required amounts of catalyst

	Wecryl 413 (at 20 °C, 1.5% catalyst)
Pot life	approx. 12 min
Rainproof	approx. 30 min
Can be walked on/ overcoated	approx. 45 min
Curing time	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 Wekat 900 in % w/w (guide)									
	-5	3	5	10	15	20	25	30	35	40
Wecryl 413	3%	3%	2%	2%	1,5%	1,5%	1,5%	1%	1%	1%

Consumption rates

Substrate	**Consumption**
Asphalt / Concrete	approx. 6 kg/m²

Technical data

Density:	approx. 1.89 g/cm³
Slip resistance	R13

Product information sheet

Wecryl 413

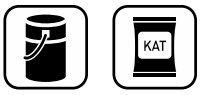
Textured Surfacing High Performance

Product application

Substrate preparation
The substrate must be suitably prepared so that it is sound, dry and free from loose or adhesion-reducing components.

Concrete:
Wecryl 171 is used as a primer on absorbent substrates, e.g. concrete. For further information please refer to the technical information sheet.

Asphalt:
We advise against applying the product to fresh asphalt < 90 days. No primer is required if the product is applied to older asphalt > 90 days.



Mixing
First stir the tub contents thoroughly.
Then add the catalyst while stirring at the slow-speed setting and mix for at least 2 minutes. Make sure that the product on the base and sides of the container is mixed in. Ideally Wecryl 413 High Performance Textured Surfacing should be repotted once and then stirred thoroughly again.
At product temperatures < 10 °C the product should be stirred for at least 4 minutes, as the catalyst will take longer to dissolve.

Application
Spread the mixed material evenly using an aluminium blade or smoothing trowel and lay off to particle size thickness.
The advantage of using the aluminium blade is that this can minimise the otherwise normal trowel marks to create a smooth and even appearance.

Cleaning

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. 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 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.

Rev.: 01 March 2025