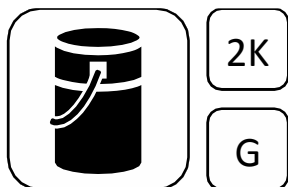


Wecryl 123 BS

Primer for bituminous composite waterproofing



Material

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

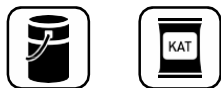
Properties and advantages

- Easy and fast application
- Good binding properties for residual dust control
- Hydrolysis- and alkali-resistant
- Fills pores, pinholes and cracks
- Penetrates into and stabilises the surface

Areas of application

Wecryl 123 BS is used as a primer on concrete substrates that need to comply with TL/TP-BEL-EP of ZTV-ING, part 7, bridge deck surfacing. Suitable for overlaying with polymer-bitumen waterproofing membranes under asphalt surfacing.

Packaging



Summer:		Winter:	
10.00 kg	Wecryl 123 BS	10.00 kg	Wecryl 123 BS
<u>0.30 kg</u>	Weplus catalyst (3 x 0.1 kg)	<u>0.40 kg</u>	Weplus catalyst (4 x 0.1 kg)
10.30 kg		10.40 kg	

Colours

Wecryl 123 BS has a reddish tint.

Storage

Store products sealed in their original airtight container and in a cool, dry and frost-free place. Unopened products have a shelf life of at least 6 months. 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 123 BS	+3 to +35	+3 to +50*	+3 to +30

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

Humidity and moisture

The relative humidity must be ≤ 90 %.

The surface to be coated must be dry.

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

Please refer to the appropriate application guide for information about correct surface preparation.

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Reaction times and required amounts of catalyst

Concrete replacement systems

Since the primer was developed specifically for concrete, its use on concrete replacement systems must be tested separately, since curing problems can occur.

	Wecryl 123 BS (at 20 °C, 3 % Weplus catalyst)
Pot life	approx. 10 minutes
Rain-proof	approx. 30 minutes
Can be walked on / overcoated after	approx. 30 minutes
Curing time	approx. 2 hours

Higher temperatures or greater proportions of Weplus catalyst will reduce reaction times, while lower temperatures and smaller proportions of Weplus catalyst will increase reaction times.

The following table indicates the recommended amount of Weplus catalyst required to adjust the curing reaction to the temperature.

Product	Substrate temperature in °C; required amounts of Weplus catalyst in % w/w (guide)										
	+3	5	10	15	20	25	30	35	40	45	50
Wecryl 123 BS	6%	6%	4%	4%	3%	3%	3%	2%	2%	2%	1%

However, it should be noted that ZTV-BEL-B part 3 stipulates a substrate temperature of 8 °C – 40 °C for any application in accordance with these requirements.

Consumption

As primer: approx. 0.30 – 0.50 kg/m²
 As sealer: approx. 0.60 – 0.80 kg/m²
 As scratch coat: approx. 0.50 – 0.80 kg/m²/mm

The consumption rate is dependent on factors such as the application method, substrate and consistency. The consumption rates given here are intended merely as a guideline. If required, exact consumption rates will need to be determined on site.

Technical data

Density: 1.04 g/cm³
 Dynamic viscosity at 23 °C: 160 mPas

Product application



Application equipment / tools

For mixing the product:

- Twin-paddle stirrer

For applying the product:

- Sheepskin roller
- Brush (only for areas not accessible with roller)

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Substrate preparation

The primer must only be applied to a prepared substrate.

Please refer to the appropriate application guide for information about correct surface preparation.



Mixing

First stir the tub contents thoroughly.

Then add the Weplus catalyst while stirring at the slow-speed setting and mix for 2 minutes. Make sure that the product on the base and sides of the container is mixed in.

At product temperatures < 10 °C the product should be stirred for 4 minutes, as the Weplus catalyst will take longer to dissolve.

Scratch coat

Primer:

Pour approx. 300 - 500 g/m² of the mixed Wecryl 123 BS onto the surface and then distribute it with a rubber squeegee. Use a sheepskin roller to go over the area for an even finish. Avoid creating puddles of primer. Top the fresh primer with an even layer of 0.2 - 0.7 mm quartz sand, approx. 0.8 - 1.0 kg/m², grain to grain. Avoid applying too much quartz sand topping. Once the primer has hardened, brush or vacuum the area to remove any quartz sand that has not been incorporated.

Sealer applied to concrete in accordance with ZTV-ING part 7, section 1:

Pour at least 400 g/m² of the mixed Wecryl 123 BS onto the surface and then distribute it with a rubber squeegee. Use a sheepskin roller to go over the area for an even finish. Avoid creating puddles of primer. Top the fresh primer with an even and excess amount of 0.7 - 1.2 mm quartz sand. Once the primer has hardened, brush or vacuum the area to remove any quartz sand that has not been incorporated. After an interval of approx. 30 - 40 minutes Wecryl 123 BS can be applied to the primed area as a sealer. Use a rubber squeegee and sheepskin roller to spread at least 600 g/m² over the area. The surface is not topped with quartz sand.

Scratch coat for levelling out roughness heights of up to 5 mm:

Pour approx. 300 - 500 g/m² of the mixed Wecryl 123 BS onto the surface and then spread it over the substrate with a rubber squeegee. Use a sheepskin roller to go over the area for an even finish. Avoid creating puddles of primer. Top the fresh primer with an even layer of 0.2 - 0.7 mm quartz sand, approx. 0.8 - 1.0 kg/m², grain to grain. Avoid applying too much quartz sand topping. Once the primer has hardened, apply the scratch coat mix consisting of 1 pbw Wecryl 123 BS and 3 pbw quartz sand and top with fire-dried quartz sand, grain size 0.2 - 0.7 mm. The scratch coat must skim the tips of the concrete surface. The scratch coat finish must be like the finish achieved with a primer. Avoid applying too much quartz sand topping. Once the primer has hardened, brush or vacuum the area to remove any quartz sand that has not been incorporated.

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Mixing ratio for scratch coat

Wecryl 123 BS : Quartz 0.2 - 0.6 mm 1:3 (resin : quartz sand)

Cleaning

If work is interrupted or when it is completed, clean the tools thoroughly with Weplus 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 sheet for the product 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 that reflect advances in technology or offer improvements to our products.

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