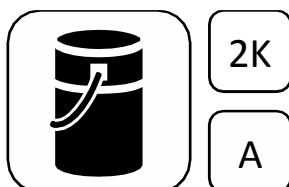


Wecryl 230 / -thix / -TT Waterproofing



Brief description

Wecryl 230 products are high-grade, PMMA-based waterproofing resins with low-temperature flexibility and are used to create durable and reliable roof waterproofing membranes and to waterproof joints on water-impermeable concrete with fleece reinforcement. Its liquid application allows seamless waterproofing systems to be applied to large areas, and even the most complex roof penetrations and details to be securely incorporated.

Material

2-component, fast-reactive and highly flexible PMMA-based (polymethyl methacrylate) waterproofing resin

Properties and advantages

- Highly flexible and crack-bridging even at extreme sub-zero temperatures
- Permanently weather-resistant (UV-, hydrolysis- and alkali-resistant)
- Fully bonded to the substrate, therefore no flow paths for water under the membrane
- Easy and fast application
- The most complex roof penetrations can be securely incorporated in the seamless waterproofing system
- Fast-curing
- Can also be applied at sub-zero temperatures
- Can be applied to almost all substrates, including variable substrates (when combined with WestWood Primers)
- Solvent-free
- Test certificates and technical approvals (ETA, AbP) for the areas of roof waterproofing and the waterproofing of joints on water-impermeable concrete units

Areas of application

Wecryl 230 is applied together with Weplus fleece reinforcement for waterproofing large areas and details on roofs as well as for waterproofing water-impermeable concrete joints. For utilised roof areas Wecryl 230 is applied under other WestWood products or as a waterproofing membrane underneath surfacing provided by others.

Differences between Wecryl 230, -thix, -TT

Wecryl 230 thix is a variant of Wecryl 230 that is made more viscous / thixotropic to reduce run-off when applied to sloping and vertical surfaces. It is therefore used primarily for the waterproofing of details.

Wecryl 230 TT is a variant of Wecryl 230 that is optimised for application at low temperatures. The application and curing properties, in particular, have been modified specifically for low-temperature use. We recommend that this product is applied at temperatures below 10 °C. Wecryl 230 TT can also be used for waterproofing upstands on roof details.

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Packaging



The 5, 10 and 25 kg containers are supplied with Weplus catalyst.

Wecryl 230, Wecryl 230 thix:

5.00 kg Wecryl 230 thix only
0.10 kg Weplus catalyst (1 x 0.1 kg)
 5.10 kg

10.00 kg Wecryl 230 /-thix
0.20 kg Weplus catalyst (2 x 0.1 kg)
 10.20 kg

25.00 kg Wecryl 230 /- thix
0.50 kg Weplus catalyst (5 x 0.1 kg)
 25.50 kg

Wecryl 230 TT:

10.00 kg Wecryl 230 TT
0.40 kg Weplus catalyst (4 x 0.1 kg)
 10.40 kg

25.00 kg Wecryl 230 TT
1.00 kg Weplus catalyst (10 x 0.1 kg)
 26.00 kg

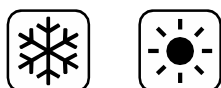
Colours

Wecryl 230/-thix/-TT is available in the following standard colours:
 RAL 7032 Pebble grey
 RAL 7043 Charcoal grey (Wecryl 230 thix only)

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 230	-5 to +35	+3 to +50*	+3 to +30
Wecryl 230 thix	-5 to +35	+3 to +50*	+3 to +30
Wecryl 230 TT	-15 to +25	-10 to +30*	+3 to +20

* 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.

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Moisture

The relative humidity must be $\leq 90\%$.

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 230/-thix (at 20 °C, 2 % Weplus catalyst)	Wecryl 230 TT (at 3 °C, 4 % Weplus catalyst)
Pot life	approx. 15 minutes	approx. 20 minutes
Rain-proof after	approx. 30 minutes	approx. 45 minutes
Can be walked on / overcoated after	approx. 1 hour	approx. 75 minutes
Curing time	approx. 3 hours	approx. 6 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)												
	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
230/-thix	-	-	4%	4%	4%	2%	2%	2%	2%	2%	1%	1%	1%
230 TT	6%	6%	4%	4%	4%	2%	2%	2%	2%	-	-	-	-

Consumption rates

- As technical membrane approx. 2.50 kg/m²
- As membrane + covering layer approx. 4.00 kg/m²

Technical data

Density: 1.21 g/cm³
Water vapour diffusion resistance factor: 4335 [-]

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)

Substrate to be coated

Apply the waterproofing resin to the cured WestWood Primer or suitably prepared substrate.

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Mixing

First stir the tub contents thoroughly.

Then add the Weplus catalyst while stirring the resin 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 5 minutes, as the Weplus catalyst will take longer to dissolve.

Application

Wecryl 230/-thix:

Use Wecryl 230 for waterproofing horizontal areas. Wecryl 230 thix is used for vertical surfaces (e.g. upstands on details).

Wecryl 230 TT:

Wecryl 230 TT is used at low temperatures (see table) and can be applied equally to horizontal and to vertical surfaces.

Apply a generous and even layer of the mixed material to the entire area (at least 1.5 kg/m²), then immediately embed the Weplus Fleece and use a sheepskin roller to remove any air bubbles. Cover the fleece straightaway (wet in wet) with a second layer of material (at least 1 kg/m², as required). In each case use a sheepskin roller to spread the material over the surface. Fleece overlaps must be at least 5 cm wide.

Preparation for subsequent layers

Surfacing supplied by others and applied subsequently:

- a) Fully bonded surfacing (e.g. tiles)
Once the waterproofing has cured, apply an additional covering layer of Wecryl 230/-thix/-TT (approx. 1.5 kg/m²) and top with a generous amount of sand while still wet (quartz sand 0.7 – 1.2 mm).
Vacuum off the excess/loose sand after the surface has hardened.
The topping gives the surface the necessary roughness that allows the subsequent surfacing supplied by others to be bonded onto the base.
Never apply the topping to the waterproofing layer. Only use dry quartz sand (e.g. Weplus Quartz Sand).
- b) Loose-laid surfacing (e.g. stone slabs)
Once the waterproofing has cured, apply an additional covering layer of Wecryl 230/-thix/-TT (approx. 1.5 kg/m²). This protects the waterproofing layer against the mechanical loads of the surfacing supplied by others.

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.

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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.

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