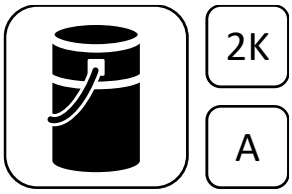
Product information sheet

Wecryl R 230 /-thix /-thix HT /-TT

Waterproofing



Brief description

Wecryl R 230 products are high-grade, fleece-reinforced PMMA-based waterproofing resins with low-temperature flexibility and are fleece-reinforced to create durable and reliable roof, building and joint waterproofing. Their liquid application allows seamless waterproofing systems to be applied to large areas, and even the most complex roof penetrations and upstands to be securely incorporated.

Material

2-component, highly flexible PMMA-based waterproofing resin (PMMA = polymethyl methacrylate)

Properties and advantages

- CE certified in accordance with ETAG 005 at the highest performance levels
- Approved by the construction authority to DIN 18531 and the flat roofing guideline (ZVDH)
- Resistant to spreading fire and radiant heat in accordance with DIN EN 13501-5: $B_{ROOF}(t1)$
- Tested for root and rhizome resistance in accordance with FLL process.
- abP for joint waterproofing of water-impermeable concrete structural components
- 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 underneath for water
- Secure incorporation of the most complex roof penetrations in the seamless waterproofing system
- Solvent-free
- Can also be applied at sub-zero temperatures
- Can be applied to almost all substrates, including variable substrates (when combined with WestWood primers)

Applications

Wecryl R 230 /-thix /-thix HT/-TT is applied together with WestWood fleece reinforcement for waterproofing large areas and details on buildings as well as for waterproofing water-impermeable concrete joints. For utilised roof areas Wecryl R 230 is applied together with the following WestWood products or as a waterproofing membrane underneath surfacing provided by others.

Differences between Wecryl R 230, -thix, -thix HT and-TT

Wecryl R 230 thix and Wecryl R 230 thix HT are variants of Wecryl R 230 with thixotropic properties to reduce run-off when the waterproofing resin is applied to sloping and vertical surfaces. They are therefore used primarily for the waterproofing of details.

Wecryl R 230 thix HT is a variant of Wecryl R 230 thix and is optimised for application at high temperatures. It possesses optimum properties when applied to vertical surfaces, especially at higher temperatures, and ensures workability under those conditions. We recommend using this variant at temperatures ≥ 25 °C.

Wecryl R 230 TT is a variant of Wecryl R 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 R 230 TT can also be used for waterproofing details with vertical surfaces.

Wecryl R 230 /-thix /-thix HT /-TT

Waterproofing

Pack size

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

Wecryl R 230

Summer:

5,00 kg	Wecryl R 230
0,10 kg	Wekat 900 (1 x 0,1 kg)
5,10 kg	

Summer:

10,00 kg	Wecryl R 230
0,20 kg	Wekat 900 (2 x 0,1 kg)
10,20 kg	

Summer:

25,00 kg	Wecryl R 230
0,50 kg	Wekat 900 (5 x 0,1 kg)
25,50 kg	

Wecryl R 230 thix, R 230 thix HT

Summer:

5,00 kg	Wecryl R 230 thix /thix HT
0,10 kg	Wekat 900 (1 x 0,1 kg)
5,10 kg	

Winter:

5,00 kg	Wecryl R 230 thix /thix HT
0,20 kg	Wekat 900 (2 x 0,1 kg)
5,20 kg	

Summer:

10,00 kg	Wecryl R 230 thix /thix HT
0,20 kg	Wekat 900 (2 x 0,1 kg)
10,20 kg	

Winter:

10,00 kg	Wecryl R 230 thix /thix HT
0,40 kg	Wekat 900 (4 x 0,1 kg)
10,40 kg	

Summer:

25,00 kg	Wecryl R 230 thix
0,50 kg	Wekat 900 (5 x 0,1 kg)
25,50 kg	

Winter:

25,00 kg	Wecryl R 230 thix
1,00 kg	Wekat 900 (10 x 0,1 kg)
26,00 kg	

Wecryl R 230 TT

Winter:

5,00 kg	Wecryl R 230 TT
0,20 kg	Wekat 900 (2 x 0,1 kg)
5,20 kg	

Winter:

10,00 kg	Wecryl R 230 TT
0,40 kg	Wekat 900 (4 x 0,1 kg)
10,40 kg	

Winter:

25,00 kg	Wecryl R 230 TT
1,00 kg	Wekat 900(10 x 0,1 kg)
26,00 kg	

Wecryl R 230 /-thix /-thix HT /-TT

Waterproofing

Standard colours

7032 Pebble grey
7043 Traffic grey B

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 12 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 R 230	-5 to +35	+3 to +50*	+3 to +30
Wecryl R 230 thix /-thix HT	-5 to +35	+3 to +50*	+3 to +30
Wecryl R 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.

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

Wecryl R 230 /-thix /-thix HT /-TT

Waterproofing

Consumption rates

- As technical membrane approx. 3.00 kg/m²
- As membrane + covering layer approx. 4.00 kg/m²

Technical data

Density:	1.21 g/cm³
Water vapour diffusion resistance factor:	4,335

Product application

Application equipment / tools

For mixing the product:

- Mixing tool with twin-paddle stirrer

For applying the product:

- Sheepskin roller
- Brush (only for areas not accessible with the sheepskin roller)
- spray-on application 98:2 with liquid catalyst (e.g. Wekat 902)

Substrate to be coated

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

Mixing

First stir the tub contents thoroughly.
Then add the Wekat 900 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 catalyst will take longer to dissolve.

Application

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

Wecryl R 230 TT:
Wecryl R 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 cover the entire area (at least 1.5 kg/m²), then immediately embed the special synthetic-fibre WeFleece for waterproofing resins 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 a sheepskin roller is used to spread the material over the surface.
Fleece overlaps must be installed with at least 5 cm overlap.

Preparation for subsequent layers
Surfacing supplied by others and applied subsequently:

- Fully bonded surfacing (e.g. tiles)
  Once the waterproofing has cured, apply an additional covering layer of Wecryl R 230 /-thix /-thix HT /-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 sand topping to the waterproofing layer. Only use dry quartz sand (e.g. WestWood quartz sand).

b) Loose-laid surfacing (e.g. stone slabs)
  Once the waterproofing has cured, apply an additional covering layer of Wecryl R 230 /-thix /-thix HT /-TT (approx. 1.5 kg/m²).
  This protects the waterproofing layer from the mechanical loads of the surfacing supplied by others.

Spray application
Wecryl R 230 /-TT can also be sprayed on. Use the 98:2 method and liquid catalyst for this. Due to the wide range of technical possibilities (machines, nozzles, etc.) we recommend obtaining individual advice from our application technology department before planning a project.

Cleaning

If work is interrupted or when it is completed, clean 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. 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.

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