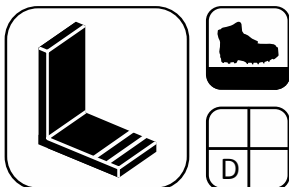


Wecryl Roof Waterproofing System



Brief description

The Wecryl roof waterproofing system is specifically designed as a highly durable waterproofing system for flat, non-used roofs. Since it is applied as a liquid, it creates a seamless waterproofing system in which even the most complex roof penetrations can be reliably and durably incorporated. It is also extremely weather-resistant, crack-bridging, flexible at low temperatures and its surface can be finished in any desired colour.

Properties and advantages

- Seamless waterproofing with fleece reinforcement
- Liquid application ensures seamless incorporation and secure waterproofing of the most complex upstands
- Highly flexible and crack-bridging even at extreme sub-zero temperatures
- Permanently weather-resistant (resistant to high and low temperatures, UV rays, hydrolysis)
- Resistant to most commonly used acids and alkali solutions
- Fully bonded to the substrate, therefore no flow paths for water
- Easy and fast application
- Can also be applied at sub-zero temperatures
- Can be applied to almost any substrate
- Solvent-free
- European approval (ETA) as roof waterproofing membrane with CE marking
- Root-resistant in accordance with FLL
- Resistant to spreading fire and radiant heat in accordance with DIN EN 13501-1, -5 with classification B_{ROOF}(t1) and E
- Hard roof within the meaning of the national and regional building regulations

Areas of application

The Wecryl roof waterproofing system is used for creating a highly durable waterproofing membrane on non-used flat roofs in new build developments and for refurbishment. The system is suitable for residential, commercial and industrial properties or for garages – wherever secure waterproofing with a long service life is desired.

Application conditions



Temperatures

The system can be applied within an ambient temperature range between +3 °C and +35 °C. Many products are also suitable for application at sub-zero temperatures. Please refer to the table below for exact details.

Primer layer	Temperature range, in °C		
	Air	Substrate*	Material
Wecryl 222	-5 to +35	-5 to +50*	+3 to +30
Wecryl 276	+3 to +35	+3 to +50*	+3 to +30
Wecryl 276 K	+3 to +35	+3 to +50*	+3 to +30
Wethan 509	+3 to +35	+3 to +50*	+3 to +30
WMP 713	+3 to +35	+3 to +50*	+3 to +30

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Waterproofing layer	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
Wearing layer			
Wecryl 288	-5 to +35	+3 to +40*	+3 to +30

* 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.

Consumption and reaction times

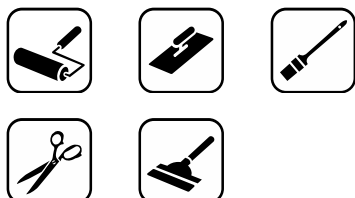
Primer layer	Consumption [kg/m ²]		
	Substrate - Smooth	Fine-sandy	Rough
Wecryl 222	approx. 0.4	approx. 0.5	approx. 0.8
Wecryl 276	approx. 0.4	approx. 0.5	approx. 0.8
Wecryl 276 K	approx. 0.8	approx. 0.9	approx. 1.0
Wethan 509	0.03 – 0.05	-	-
WMP 713	approx. 0.18	-	-
Waterproofing layer	Waterproofing	Covering layer	
Wecryl 230/-thix	at least 2.5	at least 1.5	
Wecryl 230 TT	at least 2.5	at least 1.5	
Weplus Fleece	approx. 1.05 m ² /m ²	-	
Wearing layer	Substrate - Smooth	Sanded	
Wecryl 288	approx. 0.6	approx. 0.6 - 0.8	

	Drying time (temperature-dependent)			
	30 °C	20 °C	10 °C	+3 °C
Wethan 509	1 – 2 hours	1.5 – 3 hours	2 – 4 hours	3 – 6 hours
WMP 713	at least 1 hour	at least 2 hours	at least 3 hours	at least 4 hours

	Reaction time (approx. values at 20 °C)			
	Pot life	Rain-proof	Overcoatable	Curing time
Wecryl 222	15 minutes	30 minutes	45 minutes	3 hours
Wecryl 276	10 minutes	30 minutes	30 minutes	2 hours
Wecryl 276 K	10 minutes	30 minutes	30 minutes	2 hours
Wecryl 230/-thix	15 minutes	30 minutes	1 hour	3 hours
Wecryl 230 TT	20 minutes	45 minutes	75 minutes	6 hours
Wecryl 288	15 minutes	45 minutes	1 hour	3 hours

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Application tools



Product	Application tool
Wecryl 222	Sheepskin roller
Wecryl 276	Sheepskin roller
Wecryl 276 K	Smoothing trowel
Wethan 509	Brush
WMP 713	Finish roller
Wecryl 230/-thix	Sheepskin roller
Wecryl 230 TT	Sheepskin roller
Weplus Fleece	Scissors
Wecryl 288	Finish roller or hard rubber blade (for topped surfaces)

Substrate preparation and primer selection

Correct substrate preparation and a flawless primer coating are essential for ensuring the functional durability of the WestWood system. Generally the substrate must be sound, dry and free from loose or adhesion-reducing particles. That is why coats of paint, cement slurry, dirt and grease, for instance, must always be removed completely. As a rule this is done by shot blasting, milling or grinding and then vacuuming off the debris. The primer coating then applied creates an ideal barrier and enables optimum adhesion between the substrate and the WestWood system. Please refer to the Application Guidelines - Substrate for the correct substrate preparation and primer selection.

Primer layer

The primer is applied to the prepared substrate.

Wecryl 222 - Primer for asphalt substrates

Wecryl 276 - Primer for absorbent substrates

Use the sheepskin roller to apply an even film-forming coat of primer. Avoid creating puddles of primer.

Once the coating has cured, apply a second coat to cover any defects (bubbles, areas not fully coated).

Wecryl 276 K - Scratch-coat primer for absorbent mineral substrates

Apply an even and film-forming coat of primer with the smoothing trowel, using the particle size as a guide to the thickness of the layer. Avoid any build-up of material.

Once the coating has cured, apply a second coat to cover any defects (bubbles, areas not fully coated).

Wethan 509 - Primer for FPO and TPO sheets

Brush-apply a thin coat of primer to the prepared substrate.

Always avoid any build-up of material and if necessary use a brush to spread this out (especially in corners).

WMP 713 - Metal primer

Use the finishing roller to apply an even coat of primer to the substrate.

Always avoid any build-up of material and if necessary use a brush to spread this out (especially in corners).

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Equalising layer

Once the primer has hardened use Wecryl 810 Surfacer, Wecryl 233 or Wecryl 242 Mortar to make good any areas of damage, height differences, broken or missing tiles or negative slope. Please refer to the Application Guidelines – Substrate.

Waterproofing layer

The primer and equalising layers must have hardened before the waterproofing layer can be applied. The first stage involves waterproofing details (e.g. upstands, penetrations) and expansion joints. The waterproofing is then applied to the main area.

Waterproofing details

Wecryl 230/-thix/-TT

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. Apply the remaining material directly (wet in wet) up to the required consumption rate. In each case use a sheepskin roller to spread the material over the surface. Fleece overlaps must be at least 5 cm wide.

Please refer to our drawings of details and computer animations for further information about waterproofing details (e.g. cutting the fleece to size).

Waterproofing expansion joints

If existing expansion joints have to be waterproofed, apply a joint tape along the centre of the joint and then two layers of waterproofing with fleece reinforcement. If sealer is used as a finish, it must not be applied to the area above the joint tape. For further information please refer to the application guidelines for the WestWood Wecryl joint waterproofing system and our related drawings.

Waterproofing the main area

Wecryl 230/-thix/-TT - Waterproofing

The main area is waterproofed in the same way as the details and these are integrated with a minimum fleece overlap of 5 cm.

Covering layer (optional)

In areas subject to increased chemical stress or for walkways (e.g. for maintenance work) an additional coating of waterproofing material (at least 1.50 kg/m²) should be applied once the waterproofing membrane has hardened.

Sealer (optional)

Wecryl 288

Wecryl 288 can be used to increase dirt-repellency or for enhancing the design (colour-defined areas, markings, patterns, wording).

Use the finish roller to apply an even layer of the mixed material (approx. 0.6 kg/m²) once the waterproofing or covering layer has hardened. Avoid fluctuating layer thicknesses.

Increased non-slip properties (optional)

Non-slip properties can be increased by topping the material with fire-dried quartz sand (e.g. Weplus Quartz Sand). The sand can either be applied to the covering layer while the resin is still wet, or to the fresh Finish (slip resistance up to R 12).

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Once the material has hardened, vacuum off the loose sand and use a finish roller to seal the entire surface with a final coat of Finish.

For an enhanced appearance you can also use a hard rubber blade to apply the Finish and then use a finish roller for laying-off. Depending on the particle size of the topping, the consumption rate for the Finish will be between approx. 0.60 and 0.80 kg/m².

Design options

WestWood systems offer excellent scope for creative designs. Wecryl 288 can be used to create surfaces in one or more colours. The Finish also allows any pattern or markings to be incorporated. In conjunction with topping materials there are many additional design options.

Cleaning the tools

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.

The tools are ready to be used again as soon as 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 individual products.

General information

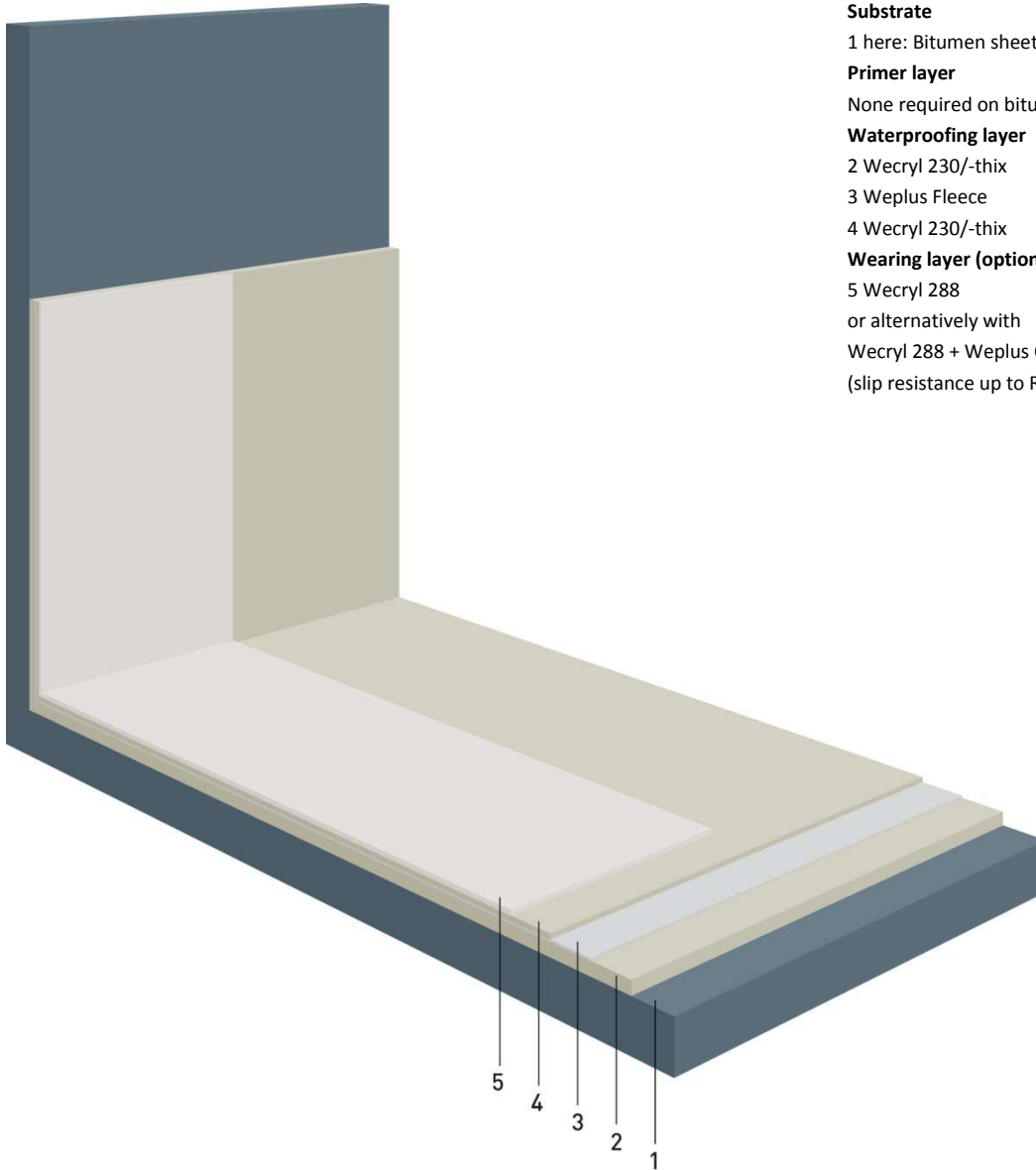
The above information, especially information about application of the products, is based on extensive development work as well as many years of experience and is provided to the best of our knowledge. However, the wide variety of requirements and conditions on site mean that it is necessary for the 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.

Appendix

System drawing

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Version 1.1

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Substrate

1 here: Bitumen sheet, non-absorbent, cleaned

Primer layer

None required on bitumen sheeting

Waterproofing layer

2 Wecryl 230/-thix

3 Weplus Fleece

4 Wecryl 230/-thix

Wearing layer (optional)

5 Wecryl 288

or alternatively with

Wecryl 288 + Weplus Quartz Sand

(slip resistance up to R 12)