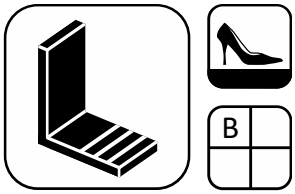
Installation guideline

Wecryl Waterproofing System under surfacing supplied by others



Brief description

The Wecryl Waterproofing System under surfacing supplied by others allows a high-quality, seamless and crack-bridging waterproofing layer to be installed under loose-laid or bonded surfacing supplied by others (stone slabs, timber flooring, tiles, asphalt ...).

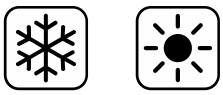
Properties and advantages

- CE certified in accordance with ETAG 005 at the highest possible performance levels
- Approved by the construction authority to DIN 18531 and the flat roofing guideline (ZVDH)
- Can be used under loose-laid and bonded surfacing (timber flooring, tiles, asphalt, etc.).
- Seamless waterproofing layer with fleece reinforcement
- Fully bonded to the substrate, therefore no flow paths underneath for water
- Can be applied to almost any substrate
- Secure waterproofing of penetrations and upstands
  -Permanently 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
- Easy and fast application
- Can also be applied at sub-zero temperatures
- Solvent-free

Applications

The Wecryl Waterproofing System under surfacing supplied by others is used for areas with joints or susceptible to cracking under loose-laid or bonded materials (stone slabs, lath flooring, tiles, asphalt...).

Application conditions



Temperatures

The system can generally 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.

Product	**Temperature range, in °C**		
Primer layer	**Air**	**Substrate***	**Material**
Wecryl 110	-5 to +35	-5 to +50*	+3 to +30
Wecryl 178	+3 to +35	+3 to +50*	+3 to +30
Wecryl 176 /176 K	+3 to +35	+3 to +50*	+3 to +30
WMP 113	+3 to +35	+3 to +50*	+3 to +30
WMP 174 S	+3 to +35	+3 to +35*	+3 to +30
Waterproofing layer			
Wecryl R 230	-5 to +35	+3 to +50*	+3 to +30
Wecryl R 230 thix	-5 to +35	+3 to +50*	+3 to +30
Wecryl R 230 TT	-15 to +25	-10 to +30*	+3 to +20

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* 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

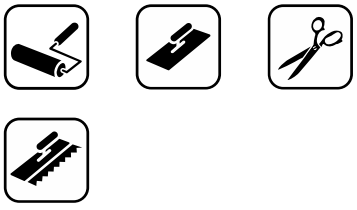
Product	**Consumption [kg/m²]**		
Primer layer	Substrate smooth	fine-sandy	coarse
Wecryl 110	approx. 0.5	approx. 0.6	approx. 0.7
Wecryl 178	approx. 0.4	approx. 0.5	approx. 0.8
Wecryl 176	approx. 0.4	approx. 0.5	approx. 0.8
Wecryl 176 K	approx. 0.8	approx. 0.9	approx. 1.0
WMP 113	approx. 0.18	-	-
WMP 174 S	approx. 0.1 l/m²		

Waterproofing layer	Waterproofing	Covering layer	
Wecryl R 230 /-thix	min. 3.0	min. 1.5	
Wecryl R 230 TT	min. 3.0	min. 1.5	
WeVlies	approx. 1.05 m²/m²	-	

Product	**Drying time** (temperature-dependent)			
	30 °C	**20 °C**	**10 °C**	**+3 °C**
WMP 113	min. 1 hour	min. 2 hours	min. 3 hours	min. 4 h
WMP 174 S	min. 20 min	min. 30 min	min. 40 min	min. 45 min

Product	**Reaction time** (approx. values at 20 °C)			
	Pot life	**Rainproof**	**Overlayable**	**Curing time**
Wecryl 110	12 min	30 min	45 min	3 hours
Wecryl 178	10 min	30 min	30 min	2 hours
Wecryl 176	10 min	30 min	30 min	2 hours
Wecryl 176 K	10 min	30 min	30 min	2 hours
Wecryl R 230 /-thix	15 min	30 min	1 hour	3 hours
Wecryl R 230 TT (at 3°C)	20 min	45 min	75 min	6 hours

Application tools



Product	**Application tool**
Wecryl 110	Sheepskin roller
Wecryl 178	Sheepskin roller
Wecryl 176	Sheepskin roller
Wecryl 176 K	Smoothing trowel
WMP 113	Finish roller
Wecryl R 230 /-thix /-TT	Sheepskin roller
WeVlies	Scissors

Correct substrate preparation and a flawless primer coating are essential for ensuring the functional durability of the WestWood System.

Installation guideline

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Substrate preparation and primer selection

Generally the substrate must be sound, dry, and free from loose and 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, scarifying 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 110 – Primer for asphalt
Wecryl 178 – Primer for damp substrates
Wecryl 176 – 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 176K – Primer / Scratch-coat for highly 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. Any build-up of material should be avoided.
Once the coating has cured, apply a second coat to cover any defects (bubbles, areas not fully coated).

WMP 113 / WMP 174 S – Primer for metal
Use a finish roller or a spray can to apply an even coat of the primer to the substrate.
Always avoid any build-up of material and if necessary use a brush to spread this out (especially in corners).

Levelling

Once the primer has hardened use Wecryl 810, Wecryl 333/Wecryl 337 or Wecryl 842 to level any cavities, height differences, broken and removed tiles or negative slopes. Please refer to the application guidelines for the 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 waterproofing of expansion joints. The waterproofing is then applied to the continuous area.

Waterproofing of details

Wecryl R 230 /-thix /-TT – Waterproofing
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 WeVlies 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 a sheepskin roller is used to spread the material over the surface.
Fleece overlaps must be installed with at least 5 cm overlap.

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

Waterproofing expansion joints

Wecryl R 230 /-thix /-TT – Waterproofing
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. Additional layers, such as Wecryl 333 and all loose-laid surfacing supplied by others must be kept clear above the area of the joint tape. The joints in the tiling must be filled with a permanently flexible material. For further information please refer to the application guidelines for the Wecryl joint waterproofing and our related drawings.

Waterproofing of continuous areas

Wecryl R 230 /-thix /-TT – Waterproofing
The main area is waterproofed in the same way as the details and is integrated accordingly with the details' waterproofing with a fleece overlap of at least 5 cm.

Covering layer (loose-laid surfacing by others)

Wecryl R 230 /-thix /-TT – Waterproofing
Only to be applied under loose-laid surfacing supplied by others (stone slabs, timber flooring ...) and asphalt.
Once the waterproofing has cured, an additional layer of the waterproofing material is applied (at least 1.50 kg/m²).

Covering layer (bonded surfacing by others)

Wecryl R 230 /-thix /-TT – Waterproofing
Only to be applied under bonded surfacing supplied by others (e.g. tiles) (asphalt does NOT count as bonded surfacing supplied by others).
Once the waterproofing has cured, an additional layer of the waterproofing material is applied (at least 1.50 kg/m²).
Immediately afterwards, the still liquid layer is topped (with fire-dried quartz sand 0.7 -1.2mm) in excess.
Vacuum off the excess/loose sand after the surface has hardened.
The sand topping creates the necessary roughness (key) and absorbency for the subsequent application of surfacing supplied by others.
Use only fire-dried quartz sand.
Please note: The tile adhesives used must be PMMA-compatible, e.g. solvent-free 2-component epoxy resin adhesive or high-quality flexible tile adhesives for external applications (class S2).

Cleaning 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.

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 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.

Appendix

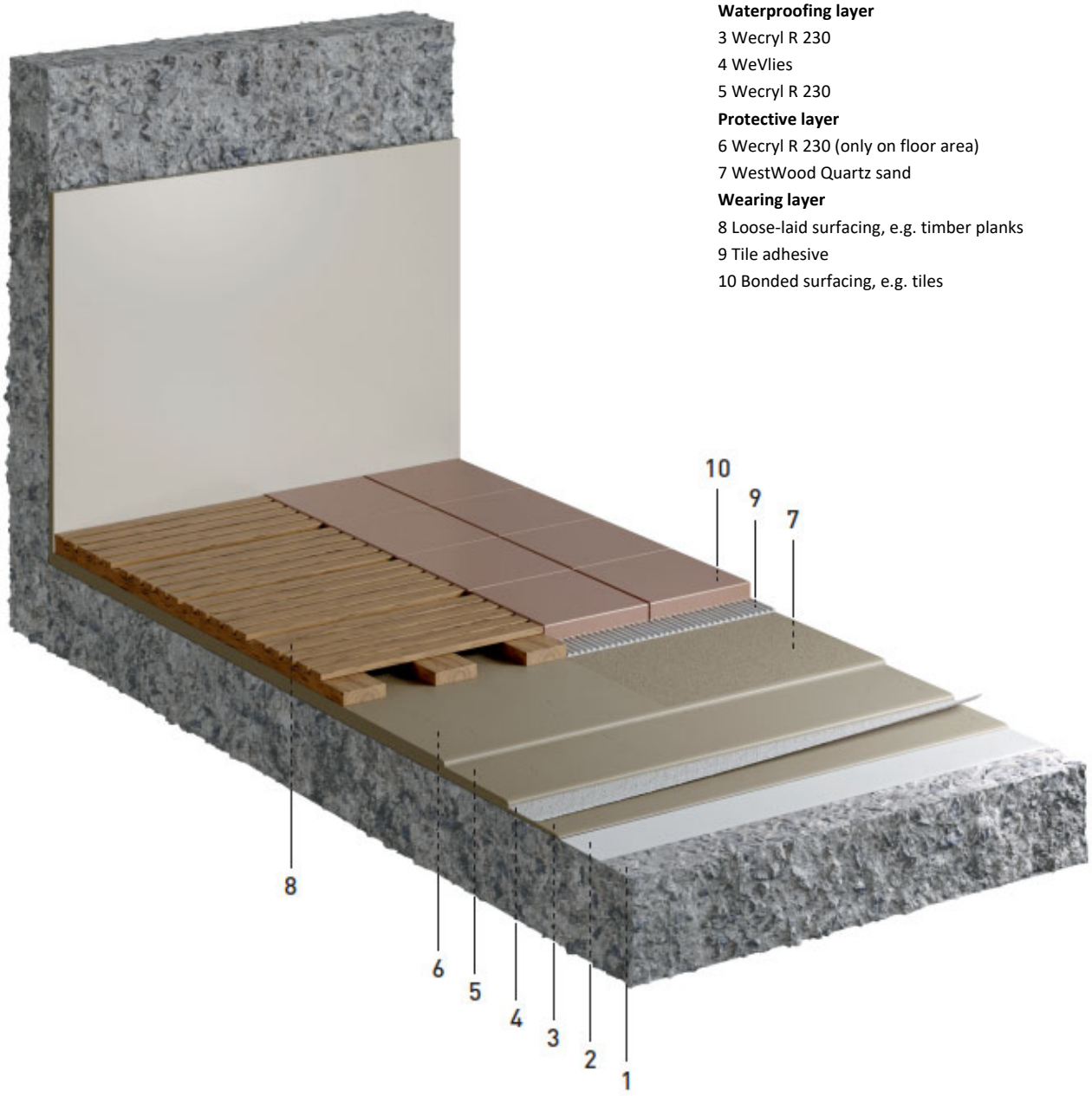
System drawing

Rev.: 01 February 2022

System drawing

Wecryl Waterproofing System under surfacing supplied by others

Substrate
1 e.g. concrete, mechanically pre-treated
Primer layer
2 e.g. Wecryl 176
Waterproofing layer
3 Wecryl R 230
4 WeVlies
5 Wecryl R 230
Protective layer
6 Wecryl R 230 (only on floor area)
7 WestWood Quartz sand
Wearing layer
8 Loose-laid surfacing, e.g. timber planks
9 Tile adhesive
10 Bonded surfacing, e.g. tiles



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