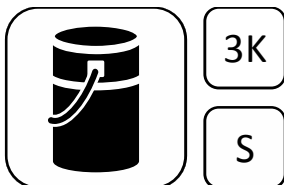


Wecryl 233/-thix 10/-thix 20/-Wi Self-Levelling Mortar



Brief description

Wecryl 233 is a flexibilised self-levelling mortar for utilised areas, such as roof terraces, balconies and multi-storey car parks. In Wecryl waterproofing systems it serves as protection for the waterproofing layer. When used in surfacing systems it is applied as a thick-film coating.

Material

3-component, fast-reactive, flexibilised and filled PMMA-based (polymethyl methacrylate) self-levelling mortar

Properties and advantages

- Versatile product – can be used as waterproofing protection, thick-film layer and equalising layer
- Product for areas exposed to mechanical loads (pedestrians, vehicles)
- Cost-efficient solution for surfacing floor areas without cracks or with only hairline cracks
- Fully bonded to the substrate, therefore no flow paths for water
- Easy and fast application
- 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

Areas of application

Wecryl 233 self-levelling mortar is part of the Wecryl system and is used as a protective layer, thick-film coating or equalising mortar. As part of Wecryl waterproofing systems it protects the waterproofing layer against the impact of traffic on account of its load-distributing effect (protective layer). In the case of areas subject to mechanical loads and that are either free from cracks or have only hairline cracks, it is used as a thick-film coating without the waterproofing layer. Furthermore it is used as an equalising mortar under WestWood systems to level out areas of damage and up to 10 mm height differences.

Differences between Wecryl 233/ -thix 10/-thix 20/-Wi

Wecryl 233 thix 10 and –thix 20 are variants of Wecryl 233 that are made more viscous / thixotropic to reduce excessive run-off when applied to sloping surfaces. Wecryl 233 thix 10 is recommended for gradients between 3 % and 10 %. Wecryl 233 thix 20 is optimised for gradients between 10 % and 20 %.

Wecryl 233 Wi is a variant of Wecryl 233 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.

Packaging



Wecryl 233/-thix 10/-thix 20/-Wi are supplied as components Wecryl 210/-thix 10/-thix 20/-Wi (base resin) and Wecryl 223 (powder component) together with the Weplus catalyst.

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Summer:

| | |
|----------------|--|
| 10.00 kg | Wecryl 210/-thix 10/-thix20 (base resin) |
| 23.00 kg | Wecryl 223 (powder component) |
| <u>0.20 kg</u> | Weplus catalyst (2 x 0.1 kg) |
| 33.20 kg | |

Winter:

| | |
|----------------|-------------------------------|
| 10.00 kg | Wecryl 210 Wi (base resin) |
| 23.00 kg | Wecryl 223 (powder component) |
| <u>0.40 kg</u> | Weplus catalyst (4 x 0.1 kg) |
| 33.40 kg | |

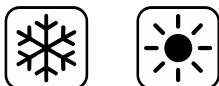
Colours

Wecryl 233/-thix 10/-thix 20/-Wi is available in the following standard colours:
RAL 7032 Pebble grey

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 233/-thix 10/-thix 20 | +3 to +35 | +3 to +50* | +3 to +30 |
| Wecryl 233 Wi | -5 to +25 | -5 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. (See preparation for subsequent layers.)

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 233/-thix 10/-thix 20 (at 20 °C, 2 % Weplus catalyst) | Wecryl 233 Wi (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 |

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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. The amount of Weplus catalyst required is determined by the quantity of resin, i.e. Wecryl 210.

| 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 |
| Wecryl 210/ -thix 10/ -thix 20 | - | - | 6% | 6% | 4% | 4% | 2% | 2% | 2% | 2% | 1% | 1% | 1% |
| Wecryl 210 Wi | - | 6% | 6% | 6% | 4% | 4% | 2% | 2% | 2% | - | - | - | - |

Consumption rates

approx. 4.00 kg/m² for a smooth substrate

Technical data

Density:

| | |
|------------------------------------|------------------------|
| Wecryl 233/thix 10/-thix 20/-Wi | 1.76 g/cm ³ |
| (Wecryl 210/-thix 10/-thix 20/-Wi) | 1.00 g/cm ³ |
| (Wecryl 223) | 2.64 g/cm ³ |

Water vapour diffusion resistance factor 23.718 [-]

Product application



Application equipment / tools

For mixing the product:

- Twin-paddle stirrer

For applying the product:

- Coating trowel with triangular teeth (notch pattern 92) or
- Smoothing trowel

Substrate to be coated

The self-levelling mortar can be applied either to the hardened WestWood Primer or to the hardened Wecryl waterproofing layer, as required.



Mixing

First stir the base resin (Wecryl 210/-thix 10/-thix 20) thoroughly and transfer to a mixing container. Add the sand (Wecryl 223) to the resin while stirring and continue until a smooth consistency is achieved (no lumps). 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

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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.

Application

Use of notched or smoothing trowel to apply an even coat of the mixed self-levelling mortar (approx. 4.0 kg/m²).

Preparation for subsequent layers:

Surfacing supplied by others and applied subsequently:

- Fully bonded surfacing (e.g. tiles)

While the self-levelling mortar is still liquid, top with a generous amount of sand (quartz sand ≥ 0.2 – 0.6 mm).

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.

Only use dry quartz sand (e.g. Wecryl Quartz Sand).

Application as equalising mortar

To equalise layer thicknesses of between 3 mm and 10 mm, add additional amounts of coarse, fire-dried quartz sand (1 – 2 or 2 – 3 mm) to the mixed self-levelling mortar before adding the Weplus catalyst (15 – 20 kg sand to 33 kg self-levelling mortar). Once the Weplus catalyst has been mixed in and dissolved, apply the mortar using a trowel.

Cleaning

If work is interrupted or when it is completed, clean the tools thoroughly with Wecryl 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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