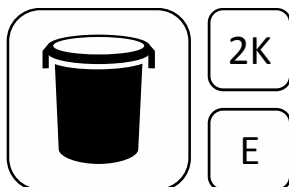


## Wecryl 846 Concrete Repair Mortar



### Brief description

Wecryl 846 is a fast-curing concrete repair mortar used to make good damage on concrete elements on engineering structures. On account of its special properties, such as high compressive strength and tensile strength in bending, Wecryl 846 is the perfect product for areas with or without structural relevance. Wecryl 846 is certified in accordance with DIN 1504-3 and is part of the WestWood Wecryl Concrete Repair System.

### Material

2-component, fast-curing, highly filled PMMA-based (polymethyl methacrylate) repair and levelling mortar with a preformulated, activated filler mix

### Properties and advantages

- Easy to apply
- Fast-curing
- High compressive strength > 75 MPa
- Abrasion-resistant
- Watertight (subject to correct intermediate compression)
- Resistant to frost and de-icing salts
- Largely resistant to acids, alkali solutions and diesel
- UV-, hydrolysis- and alkali-resistant
- Solvent-free

### Areas of application

Wecryl 846 is a 2-component catalysed-resin mortar that is used to protect and repair concrete structures. If the concrete has been damaged, Wecryl 846 can be used as a concrete substitute or to strengthen the concrete structure. For further details please refer to the application guideline "Wecryl Concrete Repair System".

### Pack size



3.00 kg	Wecryl 846 (resin)
<u>24.00 kg</u>	Wecryl 846 (activated filler mix)
27.00 kg	

### Colours

Wecryl 846 is grey.

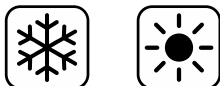
### Storage

Store products sealed in their original packaging and in a cool, dry and frost-free place. Avoid warm storage areas (> 30 °C) even for brief periods, for example on site. Consequently the products must not be exposed to direct sunlight or kept in a vehicle. The unopened product has a shelf life of at least 3 months after delivery. If only some of the contents are removed, reseal the containers so they are airtight.

# Wecryl 846

## Concrete Repair Mortar

### Application conditions



### Temperatures

The product can be applied within the following temperature ranges:

Product	Temperature range, in °C		
	Air	Substrate*	Material
Wecryl 846	-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.

### Humidity and 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.

### Frost

At temperatures around freezing the cured surface of the concrete repair mortar has to be abraded. This is essential to provide a good key, as otherwise there might be adhesion problems when the next layer is applied.

### Reaction times

	Reaction times for Wecryl 846 (at 20 °C)
Pot life	approx. 12 min
Rainproof	approx. 30 min
Walkable/overlayable	approx. 1 h
Fully cured	approx. 3 h

Higher temperatures will reduce reaction times, while lower temperatures will increase reaction times.

### Consumption rates

approx. 2.20 kg/m<sup>2</sup> per mm layer thickness

### Technical data

Dry density:

Wecryl 846

approx. 2.14 g/cm<sup>3</sup>

## Wecryl 846 Concrete Repair Mortar

### Product application



### Application equipment / tools

For mixing the product:

- Stirrer with spiral mixer head

For applying the product:

- Smoothing trowel

### Substrate preparation

The mortar is applied on top of the hardened WestWood Wecryl 276 Primer.



### Mixing

To ensure that a smooth consistency is achieved we recommend first transferring the resin component to a second mixing tub and then adding the sand component while stirring.

Shake the resin component thoroughly before use. Then stir the entire contents for 3 minutes using a compulsory mixer (spiral mixer head). There must be no lumps or nodules and all the material on the base and walls of the container must be incorporated. To ensure that this is done, it is helpful to replot the material once during the mixing process.

Attention:

Catalyst does not need to be added. The catalyst is already included in the sand component.

### Application

To avoid cracking in the mortar, it is vital that the maximum layer thickness per applied coating does not exceed 40 mm.

Thickness of applied coating: 4 - 40 mm per application.

Pour the mortar onto the primed surface, then immediately compact with a smoothing trowel and smooth over.

Note: Make sure that the mortar is worked well into the corners (compressed).

### Preparation for subsequent layers:

Wait until the previous layer no longer gives off any sensible heat and is therefore overlayable before you apply the next coat.

### Cleaning

When work is interrupted or 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.

## Wecryl 846 Concrete Repair Mortar

### 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 applicator to test the product 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.

Revised: 01 March 2018