

# Reniment® UW 11

## For preparation of underwater concrete

Reniment® UW 11 is used to prevent de-mixing of fresh concrete in direct contact with water. Accordingly, it is allowable for this underwater concrete to fall freely and unprotected through water.

### Fields of application

- Structural underwater concrete pursuant to DIN 1045
- Concretes that are allowed to fall freely through water
- Concretes for securing banks of waterways and rivers
- Concreting of working levels in groundwater

### Properties / benefits

Reniment® UW 11 has the following benefits:

- improvement of the attachment of the water to the solid particles of the concrete or mortar
- low interior friction between cement and additive

For mortar and concrete, this means:

- homogeneous mixture
- better inner cohesion
- no de-mixing on contact with water (erosion resistance)
- good flow characteristics/self-levelling
- good density without additional compression

Product data	Reniment® UW 11
Colour and consistency	light grey powder
Active substance base	Polyethylene oxide, cellulose ether
Chloride content	≤ 0.10 %
Alkaline content (Na <sub>2</sub> O equivalent)	≤ 3 %
Delivered in:	Bags: 25 kg, 600 kg in shrink film on Euro exchange pallet
Storage conditions/ shelf life	Protect against frost, strong sunlight, and contaminations. Use clean tanks and containers for storage of loose product. Shelf life in closed containers: 1 year minimum

### Approvals / tests

- Complies with EN 934-2 Table 4 (stabilisers)
- Complies with DIN V 18998
- Can be used in concrete in immediate bond with tendons (DIN 20000-100 para. 4.4)
- Can be used in concrete with alkali-reactive aggregate pursuant to Alkali Guideline part 1,4.3.2, para. (2) or (3)
- Approved for use in all EU countries

## Processing

### Recommended dosing

range – 0.2 – 1.8 % of the cement weight

### Addition

- Do not mix Reniment® UW 11 with water only.
- Add together with the additive or cement, or mix in last
- Mixing time with positive mixers around 45 sec. minimum
- Extend by at least 90 sec with gravity mixers
- Do not use high-speed mixers as they reduce or cancel the effect
- The added quantity depends on the composition of the original mixture and the desired erosion resistance
- With stagnant water, 3–6 kg/m<sup>3</sup> concrete
- With flowing water, 6–10 kg/m<sup>3</sup> concrete
- With free fall through water, 7–9 kg/m<sup>3</sup> concrete
- With grouting mortar:  
Dry installation 2–3 kg/m<sup>3</sup> concrete  
Underwater installation 3–6 kg/m<sup>3</sup> concrete

### Product

preparation – Prior to use, an initial test pursuant to DIN EN 206-1/DIN 1045-2 must be carried out

## Health and safety / environmental protection

- No hazardous substance in the sense of the Ordinance on Hazardous Substances. GISCODE BZM 1  
Avoid any contact with skin and eyes as well as aspiration of dust as far as possible.

– Water hazard class 1

(self-classification):

slightly hazardous to water.

– No hazardous goods in the sense of the Ordinance on Hazardous Goods.

– For more information, see the safety data sheet

– Note the information on the container labels.

## Legal notes

This printed information is based on our current technical knowledge and experience. Due to the wide range of potential influences during processing and application of our products, this information does not release the user from the obligation to carry out test and trials; the information is to be considered general guidelines only.

A legally binding assurance of certain properties or of the suitability for a specific use cannot be deducted from it. The user is solely responsible for ensuring compliance with any proprietary rights, applicable laws and regulations.

AUDAX is in compliance with the specifications of standards DIN ISO 9001.

This certificate is another proof for the quality, reliability, and safety of Renitherm®.



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