

## Underwater mortar

### PRODUCT DESCRIPTION

**50 UV-T** and **600 UV-T** are cementitious special mortars for underwater applications. They contain antiwashout additives to reduce the risk of cement washout. They tolerate some free-fall in water without a significant reduction in strength, however, best results are obtained by minimising free fall in water.

**50 UV-T** is a cementitious special mortar with D-max 0.2 mm.

**600 UV-T** is a cementitious special mortar consisting of well-graded aggregates with D-max 6 mm.

Both mortars contain the anti-washout additive **Rescon T**, which reduces the risk of washout to a minimum.

### AREA OF USE

**50 UV-T** and **600 UV-T** are extremely cohesive mortars. They appear to be viscous and sluggish in the mixer. This consistency ensures very little risk of water ingress when falling through water. Therefore casting without the use of a submerged tube is possible. Laboratory trials have shown that a reduction in strength of 10% occurs for a 3 m free fall. Nevertheless, it is recommended to reduce free fall in water to a minimum.

The anti-washout agent also gives very good flow properties.

The mortar, which appears to be sluggish and viscous, flows out well into the formwork. It is therefore very important that the formwork is constructed to be leakproof.

As opposed to normal mortar / concrete these mortars will not block off holes / voids in the formwork.

### WORKING INSTRUCTIONS

Only the addition of water is necessary. Use suitable mixing equipment according to the size of the operation.

Anything from a drill with whisk attachment to large mixing/pumping equipment may be used. Irrespective of

equipment used it is important that the mixing time is long enough for all constituents to be evenly distributed. Recommended mixing time is at least 3 minutes.

For larger operations pumping directly into the formwork is recommended. Pouring using a funnel and pipe is also a suitable method of placement. Construction joints are not a risk for work breaks of less than 1 hour. It is however advantageous to cast continuously without breaks.

### Form stripping

At low water temperatures the mortar will be greatly retarded. It is therefore recommended to always check the strength before removing formwork.

### SAFETY INSTRUCTIONS

For health, safety and environmental information, see separate HSE datasheet at [www.resconmapei.com](http://www.resconmapei.com).

### WARNING

*Although the technical details and recommendations contained in this product report correspond to the best of our knowledge and experience, all the above information must, in every case be taken as merely indicative and subject to confirmation after long-term practical applications: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application; in every case, the user alone, is fully responsible for any consequences deriving from the use of the product.*

*All deliveries from Rescon Mapei AS are made in accordance with the sale- and delivery conditions applicable at the time, and these conditions are taken to be accepted on placement of an order.*

**N.B! FOR PROFESSIONALS**

### TECHNICAL DATA

Compressive strength:

#### **50 UV-T**

24 hours: 18 MPa  
7 days: 38 MPa  
28 days: 46 MPa

#### **600 UV-T**

24 hours: 14 MPa  
7 days: 33 MPa  
28 days: 44 MPa

Compressive strength is measured on test samples 7 x 7 x 7 cm. The samples are submerged in water at +20°C (±2°C).

Air content for **600 UV-T** is approx. 5%.

Amount of water used for **50 UV-T** = 12 litres per 25 kg bag.

Amount of water for **600 UV-T** = 4 litres per 25 kg bag.

Packaging:

Supplied in 25 kg bags. 48 bags per Europall (1200 kg) shrink-wrapped

Storage:

Must be stored dry. The products have a minimum shelf life of 6 months when stored in sealed bags.

### Produsent:

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