Repair Mortar T

Cement based, single-component, thin-section surface repair mortar

25 kg

PRODUCT DESCRIPTION

DRYVATEC R102 Repair Mortar T is a cement-based, single-component repair mortar developed for thin-section repairs on walls and soffits.

R101 is for structural repair — used where the load-bearing section has to be reinstated. R102 is for surface repair: it brings wall and soffit surfaces that have lost their evenness, but not their section, back to a condition ready for waterproofing.

Prepared with a slightly higher water content it spreads easily, and its thixotropic structure means it does not sag overhead. Its low water/cement ratio keeps it watertight and free of shrinkage cracking.

FIELDS OF APPLICATION

- Thin-section concrete repair on walls and soffits
- Surface levelling and removal of roughness prior to waterproofing
- Forming cove fillets at internal corners
- Repair of surface defects deeper than 5 mm
- Surface preparation for internal and external applications

TECHNICAL DATA

AT +23 °C / 50 % RELATIVE HUMIDITY	
Product type	Cement based, single-component repair mortar
Appearance / colour	Grey powder
Bulk density	1.7 kg/dm³
Mixing ratio	25 kg mortar : 6 kg water
Mixing	400 rpm to a homogeneous consistency
Maturing	5 minutes standing
Layer thickness	2 – 10 mm
Compressive strength 28 d	≥ 32 N/mm²
Adhesion	≥ 1.5 N/mm²
Full cure	28 days
Application temperature	+5 °C / +30 °C
Consumption	approx. 1.7 kg/m² · mm
Shelf life	12 months
Packaging	25 kg kraft bag

Values are typical figures obtained at +23 °C / 50 % relative humidity.

THE BASE OF THE WATERPROOFING

Waterproofing lasts only as long as the surface it is applied to is sound. On a defective cross-section a crystalline coating cannot penetrate the concrete, an applied membrane thins over rough ground, and an injection packer will not hold in weak concrete.

BENEFITS

Does not sag overhead
Thixotropic structure

Spreads easily
Smooth finish in thin sections

Watertight
Low water/cement ratio

No shrinkage cracking
Controlled shrinkage

PREPARING THE MIX

01 Place 6 kg of clean water in a clean mixing container.

02 Add the 25 kg of mortar slowly while a low-speed (400 rpm) mixer is running.

03 Mix until a homogeneous consistency is obtained.

04 Leave to mature for 5 minutes, then stir briefly again before use.

SURFACE PREPARATION

- The surface is freed of form oil, laitance and loose particles; it must be sound and load-bearing.
- Form and concrete protrusions are removed mechanically.
- Cracks and voids to be repaired are opened out and cleaned with compressed air.
- The surface is saturated with water one day before application and re-wetted immediately beforehand.
- No standing water may remain on the surface.

APPLICATION

01 The prepared mortar is applied to the surface with suitable equipment.

02 A minimum of 2 mm and a maximum of 10 mm is applied in a single layer.

03 For deeper repairs the work is carried out in 2 – 3 layers.

04 Each layer is allowed to cure fully before the next is applied.

05 Mortar beyond its working time is discarded; water is not added to mortar that has begun to set.

06 The work is protected from frost, sun and strong wind for the first 24 hours.

CONSUMPTION

LAYER THICKNESS	CONSUMPTION	COVERAGE PER 25 KG	TYPICAL USE
2 mm	3.4 kg/m²	approx. 7.3 m²	Surface levelling
5 mm	8.5 kg/m²	approx. 2.9 m²	Section repair
10 mm	17.0 kg/m²	approx. 1.5 m²	Deep repair, single-layer limit

Consumption is calculated at 1.7 kg/m² per mm of thickness. The figure increases on rough and absorbent surfaces; an allowance of 10 % is recommended when estimating. On soffit work the wastage rate is higher; an allowance of 15 % is recommended.

STRENGTHENING WITH L101 ILATEX

In cement-based repairs, adhesion, flexibility and water resistance are improved with L101 iLatex polymer additive. The additive is added to the mixing water first, at 5 – 20 % by weight of cement; the powder component follows.

ADDITIVE DOSAGE	PROPERTY GAINED	RECOMMENDED USE
5 %	Basic increase in adhesion	Standard surface repair
10 %	Flexibility + water resistance	Surfaces beneath waterproofing
20 %	Maximum bond	Old smooth concrete, soffit work

Where the additive is used, the quantity of mixing water is reduced so that the total liquid ratio remains unchanged. Overdosing extends the setting time and delays strength development.

COMMON MISTAKES

- **Using it for structural repair**
  R102 is for thin sections. Where the load-bearing section has been lost, R101 must be used.
- **Applying to a dry surface**
  Absorbent concrete draws out the mixing water; adhesion is lost and the surface cracks.
- **Applying a thick layer overhead**
  Even though it is thixotropic, the risk of sagging increases with thickness; the layer must be reduced.
- **Mixing with too much water**
  Strength and watertightness fall and shrinkage cracking occurs. The ratio is 25 kg : 6 kg.
- **Not allowing layers to cure**
  The layers will separate.

POST-APPLICATION CHECKS

- Surface soundness: after curing, the surface should not dust or shed material when rubbed.
- Crack check: no shrinkage cracking; if present, the water ratio or layer thickness was incorrect.
- Adhesion: tapping lightly with a hammer should not produce a hollow sound — a hollow indicates delamination.
- Before waterproofing: the surface must be even, dust-free and sound; for crystalline systems it is additionally saturated with water.

STORAGE

12 months from the date of manufacture in the unopened kraft bag, stored dry and free of humidity. Pallet size 100 × 100 cm, 64 bags per pallet. Mortar that has absorbed moisture lumps and must not be used.

SAFETY

Wear gloves, eye protection and a dust mask. Wet mortar is alkaline; rinse thoroughly with water on skin or eye contact and seek medical advice if swallowed. Refer to the Safety Data Sheet.

LIMITATIONS

Not sufficient on its own at movement joints or on elements subject to continuous vibration. Not used for floor screeds or thick fills; R110 C-25 is preferred for such work.

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