

Technical Data Sheet

RENOLIT CEMdicht 3 in 1 Cement slurry

Waterproofing layer for the construction details.

DESCRIPTION

RENOLIT CEMdicht 3 in 1 is a cementitious waterproofing slurry obtained by the combination of a mineral powder -the **RENOLIT** CEMdicht POWDER mixed with additive **RENOLIT** CEMdicht FLEX- which has crystalline characteristics and provides very strong bonding property to the support.
Installed like a coating on the concrete, it creates a waterproofing layer on the surface and blocks any penetration of water.
It can be applied by brush, trowel or with suitable spraying equipment. Once it is hardened, the cementitious waterproofing slurry silt remains so flexible that it can be applied to highly stressed, crack-prone surfaces.



APPLICATIONS

In combination with **RENOLIT** ALKORPRO membrane, the **RENOLIT** CEMdicht 3 in 1 is mainly used to waterproof the pile caps, the foundation footing projection, and along the upper side of the **RENOLIT** ALKORPRO membrane (top of the underground wall).
Thanks to his strong bonding properties, it is also able to completely glue the **RENOLIT** ALKORPRO membrane on the concrete surface.
If it is applied on reinforced concrete or masonry brick work or cement render, the **RENOLIT** CEMdicht 3 in 1 can be is used also to protect buildings against penetration of ground dampness and water.

REGULATIONS & STANDARDS

- Test Report PG-ÜBB / abP.
- Waterproofing test in BDA Agreement Certification according to British standard BS 8102: 2009 and NHBC.
- CE Marking - EN 15651-1.

STORAGE & HANDLING

The two components **RENOLIT** CEMdicht POWDER and **RENOLIT** CEMdicht FLEX + should be stored off the ground, in dry conditions, free from frost and shaded from direct sunlight.
The mixture ratio is: 30 kg of mortar **RENOLIT** CEMdicht POWDER for 10 liters of **RENOLIT** CEMdicht FLEX + additive.

Code	Description	Packaging
75000033	**RENOLIT CEMdicht 3 in 1 – 15 kg + 5 l. – Bucket Version** Cementitious waterproofing slurry used to waterproof over pile cap, foundation footing projection. Mix the two components on site.	15 kg of **RENOLIT** CEMdicht POWDER with 5 l. canister of **RENOLIT** CEMdicht FLEX + bucket of 20 kg
75000034	**Dry POWDER RENOLIT CEMdicht – Bag of 30 kg** Dry Mineral Powder to mix with the CEMdicht FLEX +.	Bag of 30 kg 36 bags per pallet
75000035	**Additive RENOLIT CEMdicht FLEX +** Liquid additive to mix with CEMdicht POWDER.	Canister of 10 l. 36 canisters per pallet

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RENOLIT ALKORPRO
Fully bonded membrane



ESSENTIAL FEATURES

Properties	Test standard	Units	Performance
Consistency	EN 1015-3	cm	26
Raw density (fresh mortar)	EN 1015-6	kg/dm³	1,93
Solids Content (CEMdicht FLEX+)	EN ISO 3251	% of the mass	55
Air content of fresh mortar	EN 1015-7	% of the volume	4
Compression strength (hardened mortar)	EN 196-1	N/mm²	21
Flexural strength (hardened mortar)	EN 196-1	N/mm²	5,4
Tensile strength (hardened mortar) -Dry -Wet	ISO 527-2	 N/mm² N/mm²	 0,70 0,60
Tensile strain (hardened mortar) -Dry -Wet	ISO 527-2	 % %	 17 13

ESSENTIAL FEATURES ACCORDING TO THE FULLY BONDED FIELD

Properties	Test standard	Units	Performance
Thickness of the **RENOLIT** CEMdicht 3 in 1 per layer on a flat surface	Certificate adP	Mini : mm/layer Maxi : mm/layer	2,0 5,0
Watertightness on concrete surface	ASTM D 5385 1500kPa	-	Watertight
Watertightness in combination with **RENOLIT** ALKORPRO membrane	ASTM D 5385 300kPa	-	Watertight

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INSTALLATION

The substrate should be firm, load carrying and free from separating substances. The concrete should not contain additives or be treated with products that could potentially harm the waterproofing slurry.

Do not apply at temperatures < +5 °C or when frost or rain is expected.

Mix thoroughly one 30 kg bag of **RENOLIT** CEMdicht 3 in 1 with one 10 liter can of liquid component **RENOLIT** CEMdicht FLEX using a slow speed drill with rotating mixer. If necessary add a small amount of water to obtain the working consistency. Apply a minimum of:

- 3 layers of the **RENOLIT** CEMdicht waterproofing slurry when it is installed on vertical wall.
- 1 layers of 20 mm the **RENOLIT** CEMdicht waterproofing slurry when it is installed over pile cap or over the foundation footing projection.

The **RENOLIT** CEMdicht waterproofing slurry should be used within 30 minutes after the mixing. Each subsequent layers need to be applied in opposite direction to the previous layer when this later is strong enough to be not damaged when applying a layer. Ensure the minimum thickness is maintained on all edges and at corners.

After the final layer application, keep moist the **RENOLIT** CEMdicht with clean water during 3 days. Allow ten days minimum to be load carrying and fully functional.

Brickwork with joints must be rendered with a PIII mortar render (minimum layer thickness 10 mm). Onto solidly filled brickwork as per DIN 1053, **RENOLIT** CEMdicht waterproofing slurry can be applied directly. The coverage on vertical wall is approximately 3 kg/m² against ground dampness and approximately 4 kg/m² against underground water pressure. The amounts given refer to the dry mortar.

These data are statistic figures according to Harmonized European Standards. This document cancels and replaces any other document previously published. In order to improve his products, the manufacturer reserves the right to change them without prior notice.

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