TECHNICAL DATA SHEET

DÄMMER®

THE ORIGINAL

Description

Dämmer® - The Original is a hydraulically-setting premixed dry mortar made of natural raw materials. Its carefully chosen hydraulic binders are tailored to the clay component present in the inert rock flour. The product can be mixed to a free-flowing suspension without any further aggregates by simply adding water.

Properties

Dämmer - The Original is eminently suitable for environmentally friendly use. The Hygiene-Institut des Ruhrgebiets (Hygiene Institute for the Ruhrgebiet) has even confirmed environmental compatibility under water laws for Water Protection Zones I and II. However, use in water protection zones must be approved by the relevant authorities.
Thanks to its free-flowing consistency, cavities can be backfilled from a distance of up to several hundred metres. There is no segregation even at longer distances and high pressures.
Dämmer - The Original allows cavity-free backfilling with volume stability.
By changing the water/binder contents, compressive strengths in the range of 0.5 - 5.0 MPa are achieved (in accordance with DIN EN 196).
The rheological properties of the Dämmer - The Original can be adapted to requirements by using additives.

Processing instructions

Dämmer - The Original is mixed with water in a ratio of 30 – 50 % part by weight to achieve a usable suspension. The Dämmer suspension can be produced in all suitable mixing units. The water should first be put in the mixer and then the Dämmer - The Original is added.
Multiple-stage backfilling is recommended when filling in cavities with a large cross section.
The Dämmer suspension can also be used in areas under water using the immersion pipe process, as the backfilling mass also hardens hydraulically, i.e. under water.

Applications

Dämmer - The Original is particularly suitable:

- for backfilling of disused sewage pipe systems, gas and water lines, culverts, tunnels, headings, bridges, tank farms etc.
- for backfilling constructions
- for redeveloping old line systems using the relining process
- for grouting protective conduits
- for casting of double-T bars, applying the Berlin process (the Dämmer® suspension is simply poured into the jacket pipe so that after pulling the suspension reaches all cavities)
- for tunnelling work in underground railway construction and for grouting cavities between the construction and adjacent soil when laying supply lines
- for extracting water for sealing water levels and closing off annular cavities in deep drilling
- as a grouting material for enhancing soils, fissured rock mass and soils containing pebbles and coarse sand

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Delivery / Storage

25-kg bags on Europallet, fully shrunk; bulk or big bag. Dry storage on pallets is required. If stored correctly, the material can be kept for at least 6 months.

Technical Data

Water/binder ratio			**0.60**	**0.70**	**0.82**
Consistency range			pumpable	free-flowing	extremely free-flowing
Compressive strength (in accordance with DIN EN 196)					
after 3	days	[MPa]	0.3	0.2	-
after 7	days	[MPa]	0.9	0.6	0.6
after 28	days	[MPa]	3.2	2.1	1.2
Formulation					
Water		[l/m³]	619	653	694
Binder		[kg/m³]	1,032	934	847
Suspension density		[kg/m³]	1,651	1,587	1,541
Water per 25 kg bag		[l]	15.0	17.5	20.5

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