



Sewament 2



Special cementitious mortar for grouting ceramic coverings in sewer trunk lines and sewerage systems

CLASSIFICATION IN COMPLIANCE WITH EN 13888

Sewament 2 is an improved (2) cementitious (C) grout (G) of class CG2.

WHERE TO USE

Grouting anti-acid impervious tile coverings used as a protective surface for concrete in sewerage systems.

Some application examples

- Grouting anti-acid floor and wall coverings in urban effluent water purification plants.
- Grouting klinker and impervious floor and wall tiles used for sewer trunk lines.
- Re-grouting anti-acid ceramic floor and wall tiles of sewerage systems where the previous mortar has been damaged.
- Grouting anti-acid impervious tile coverings in decantation basins.

TECHNICAL CHARACTERISTICS

Sewament 2 is a prepacked mortar composed of a mixture of special hydraulic binders, selected well defined graded aggregates, additives and powder polymers.

Mixed with water, **Sewament 2** becomes an easily trowelable mortar of plastic consistency.

Sewament 2 is suitable for grouting joints up to 15 mm wide. It perfectly adheres to the ceramic

material and, if correctly applied, the grouted joints have the following properties:

- excellent resistance to chemicals for continual containment of highly acid effluent water;
- excellent resistance to sulphur-bacteria;
- high resistance to abrasion in canals containing water with a high content of sands;
- low shrinkage; therefore absence of cracks.

Thanks to its composition, **Sewament 2** resists chemical aggression produced by sulphuric acid due to the bacterial oxidation of the sulphhydrate acid deriving from the anaerobic fermentation of civil and industrial sewage.

The high resistance to chemical aggression, unusual for a cement-based grout, has been evaluated and certified by the German Säurefließen Vereinigung e. V. institute by subjecting **Sewament 2** to aggressive conditions which were eight times higher than those usually found in sewerage systems of large industrial cities.

Sewament 2 is in compliance with the "Directives for the control of grouts used in sewage trunk lines" in force in Germany.

According to the results obtained, **Sewament 2** is suitable for the installation of anti-acid linings, such



TECHNICAL DATA (typical values)	
In compliance with:	– European EN 13888 as CG2
PRODUCT IDENTITY	
Consistency:	granulated powder
Colour:	grey
Specific gravity (kg/dm³):	1.4
Dry solid content (%):	100
Storage:	12 months in original sealed packaging in a cool dry place
Hazard classification according to EC 99/45:	none
Customs class:	3824 50 90
APPLICATION DATA	
Mix ratio:	25 kg of Sewament 2 powder with 4.25 l of water 100 parts by weight of Sewament 2 with 17 parts by weight of water
Consistency of mix:	fluid paste
Specific gravity of mix (kg/dm³):	1.7
pH of mix:	13
Pot life:	30'-45'
Application temperature range:	from +5°C to +30°C
Set to light foot traffic:	~ 24 h
Ready for use:	from 3-7 days (in proportion to the type of mechanical stress)

as impervious tiles and klinker, both on concrete beds and walls in sewerage systems.

RECOMMENDATIONS

- **Sewament 2** must not be mixed with other products used for grouting joints.
- Wait until **Sewament 2** has hardened completely before grouting the anti-acid covering.
- Do not add water to the mortar that has begun to set.
- Do not use **Sewament 2** for grouting expansion joints or cracks subject to movement.

APPLICATION PROCEDURE

Preparing the joints

Before beginning to grout wait until the

adhesive used for the installation of the tiles has hardened. Make sure that the joints are clean and free of polluting agents or loose material (dust, dirt, grease, oils, etc.).

The depth of the joints must be at least 2/3 the thickness of the ceramic material. Any excess adhesive or mortar used beforehand must be removed while still fresh. Dampen the joints when using porous material in high temperatures and in the presence of wind.

Preparing the mix

While stirring, pour the **Sewament 2** into a clean bucket containing 4 l of water. Mix with a low speed drill until a homogeneous and lump-free mixture is obtained. Let the mix set for several minutes and remix before applying the product.

Application

Fill the joints with **Sewament 2** using the special Mapei trowel or a rubber squeegee. Remove the excess product, still fresh, from the surface moving the trowel or squeegee diagonally to the joints.

When the **Sewament 2** has hardened sufficiently, clean the ceramic surface with a damp hard cellulose sponge. For a perfectly clean surface, rinse with water and clean the surface with the sponge several times. It is recommended not to leave traces of **Sewament 2** because once hardened, it can be removed only by mechanical means (for example a Scotch Brite scraper) or with acids such as **Keranet**.

Surfaces can be ready for use, i.e. covered with sewage, after 3 days from the installation of the tiles. If effluent water is to flow over the grouted surface, it is recommended to wait for 7 days.

Precautions to take during and after application

No particular precaution needs to be taken at temperatures around +23°C. During summer it is recommended not to expose the product to direct sunlight, but protect it and store it in a cool place. At low temperatures it is recommended to store the product in a heated place.

SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

The product contains special hydraulic binders that when in contact with sweat or other bodily fluids produce a slightly alkaline reaction that could be irritant. Wear protective gloves and goggles. For further information refer to the safety data sheet.

Cleaning

The still fresh grout can be removed from tools with clean water. Once hardened **Sewament 2** can be removed only mechanically.

CONSUMPTION

Consumption per m² depends on the size of the ceramic tile and the width of the joint. For example: a 11.5 x 24 x 1.2 cm tile

and an 8 mm wide joint needs approximately 1.8 kg/m² of **Sewament 2**.

FORMULA FOR THE CALCULATION OF CONSUMPTION

$$[(A + B) / (A + B)] \times C \times D \times \text{s.g.} / (1 + \text{H}_2\text{O})$$

A = length of tile (mm)

B = width of tile (mm)

C = thickness of tile (mm)

D = width of joint (mm)

s.g. = specific gravity of the mortar used for grouting
(for **Sewament 2**: 1.7 kg/dm³).

H₂O = percentage of water used for preparing the mortar
(for **Sewament 2**: 17%).

PACKAGING

25 kg bags.

STORAGE

Stored in original packaging in a dry place, **Sewament 2** is stable for 12 months.

FOR PROFESSIONALS.

WARNING

N.B. - 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 relevant references
of the product are available
upon request**



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