F 7200

Properties:

F7200 is a two component penetrating concrete sealant, designed to protect against external water pressure, accumulated and flowing water in subterranean and basement areas. Sealing putty *F7200* can be applied in coats up to 6mm due to its low water content, filling cavities and cracks and waterproofing in one step.
Able to be used for whole surfaces or spot gluing of basement and perimeter insulation sheets. *F7200* can also be used for strengthening steel reinforcing fabric (e.g. F-Fabric or Bitucoat Glass fibre mesh), which is not subject to mechanical stress, during laying, providing an elastic seal.
F7200 is also suitable for use as a sealant under indoor and outdoor tiled surfaces in conjunction with Flex tile adhesive F1200. It can also be used as an internal lining for concrete holding tanks for effluent, manure and grey water.

F7200 consists of a powder component with a high dispersion rate, which when dry provides an impermeable highly elastic coating and excellent water resistance. It is also resistant to extremes of temperature, and excellent for coating old and new concrete, bricks, masonry, mastic asphalt, roofing sheets and polyurethane and polyethylene foam.

F7200 is mixed to an exact ratio of components A and B. It is resistant to aging, weather and UV radiation, pliable and adheres to bitumen. The potlife is 2-3 hours at 20°C. *F7200* is approved for use on vertical surfaces to DIN 1048, Part 5 and resists up to 2 bar of presswater (consistent with a water column of 20m in height).

Technical data:

Storage	:	to be kept in a cool, dry, frost free place. Keep away from sunlight. Will keep, unopened for approximately 9 months.
Presswater resistance	:	2 bar
Optional dilution per package	:	approx. 2 litres
Working time	:	approx. 30 min
Adhesion time	:	approx. 30 min
Processing temperature	:	+5°C to +30°C
Temperature range	:	-20°C to +80°C
Flammability	:	Euroclass F
Packaging	:	10 kg plastic bucket (A component) 10 kg paper sack (B component)
Colour	:	concrete grey

Use*:

As adhesive motar	:	approx. 5 kg/ m² (minimum coverage 60% adhesive surface over perimeter insulation sheets)
As sealant for areas in contact with the earth with no accumulated water according to DIN 18195/ Parts 4 + 5	:	approx. 3.0 kg/m² (minimum application: min. 1 coat consisting of 2 mm layer thickness when dry)
As sealant for areas in contact with the earth with a water pressure consistent with DIN18195/ Parts 6 + 7	:	approx. 4.5 kg/m² (minimum application: min. 1 coat of 3 mm layer thickness when dry)

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As protective coating in basement areas : approx.1.5 kg/m² (minimum application: min 1 coat of 1mm layer thickness when dry)

* These figures are based on a complete mix applied to even surfaces. For waterproofing above DIN 18195 please read the requirements in contained in the tile and sheet information.

Surface:

The surface must be dry, stable, even, clean, smooth and free from all contaminants (e.g. free from fungal spores, mineral deposits, algae, moss and release agents). Highly porous, sandy and chalky surfaces should be given a base coat with a diluted solution of *F7200* or *Hydropox EPG* to neutralise the porosity and seal the surface. Surfaces must be flat and smooth. Moisture penetration of walls must have been ruled out. All necessary horizontal and vertical surfaces should be prepared according to the DIN 8195 “Waterproofing of Buildings and Structures“. All coated reinforcing and rendering, stonework, plaster etc must be completely dry. Loose plaster and coatings must be completely removed. Highly absorbent surfaces should be moistened with water prior to commencing work. Perimeter insulation sheets must be fixed according to instructions (in formation, pressure bonded). Perimeter insulation sheets that have been extensively exposed to UV radiation may have a floury outer layer, which must be completely sanded off, and cleaned free of dust. The sheets in contact with the earth (max. 30 cm underneath the ground line) should be bevelled at 45° and sealed with a coat of *F7200*. The surface is now ready for treatment, and consistent with the German Construction Contract Procedures standards (VOB).

Application:

Immediately prior to use the powder component B should be completely mixed with the complete contents of the package containing the paste component A. Mix using a plaster mixer until a homogenous, lump free mixture has been achieved. **Entire contents of the packages must be used!**

To seal subterranean and basement areas:
F7200 is a ready to use putty which can be applied with a trowel. *F7200* can be applied in coats up to 6 mm due to its low water content, filling cavities and cracks and waterproofing in one step.
To apply as paint, *F7200* can be diluted with water to a maximum of 10 % of the total volume. To protect against moisture in basement areas and areas in contact with the earth (max. 30 cm underneath the ground line) *F7200* should be applied evenly and liberally with a brush. It is important that the sealant covers the bevelled insulation sheets and extends at least 5 cm over the existing building moisture barrier. For improved protection in areas in contact with the hearth, at least 2 coasts should be applied of 1 mm each, allowing for 24 hours drying time between coats. For building bases (max. 30 cm above the ground line) at least one coat of 1mm thick is required. Setting time is 5 days.

As adhesive for perimeter insulation sheets:
For building bases and joints (approx. 30 cm in contact with the earth) spread the mortar with a notched trowel of 10 x 10 on the back of the sheet. For uneven surfaces (max. 1 cm deviation) the mortar can also be applied using the bulge-point-method (a thick stripe around the perimeter of the sheet with large evenly spaces blobs to cover at least 60 % of the gluing surface in the middle). The insulation sheets are then laid out, flat, then pressed hard into the fresh mortar to ensure adhesion.
To prevent movement during later earthworks the insulation sheets should be fastened with a minimum of 2 pins per sheet (4 pins per m²) after the adhesive has dried.
Perimeter insulation sheets in contact with the earth and in the area immediately above it (max. 30 cm underneath ground line) should be bevelled to 45°. The Technical Association WTM e.V. has produced an essential technical document “Waterproofing of basement areas and buildings in contact with the earth“ (Wärmedämmverbundsysteme im Sockel- und im erdberührten Bereich). Minimum setting time 3 days at (+20°/65% r.F.).

Clean up:

Tools should be cleaned with water immediately after use. If the mixture is allowed to dry, it can only be removed machanically.

Please note:

Do not use this product under +5°C or above +30°C ambient temperature. Do not try to thin hardened putty or to reuse it. Do not use in areas with highly corrosive water (according to DIN 4630). Sealant in contact with the earth should be protected from damage through use of a protective film. DO NOT use with building materials containing gypsum (plaster of Paris), wood, and wooden products, metal, lightweight woodwool building board, and where there is negative water pressure. Not suitable for on flat rooves or for sealing balconies and terraces located over a residence. Do not expose partially dried *F7200* to high temperatures (e.g. direct sunshine, artificial heating), fast flowing water, frost and storms.
Only paint with appropriate surface coating system. The base of the building from the earth surface to at least 30 cm is the greatest risk area for water splashes and may require additional treatment measures to other surface areas of the facade.
Rainwater must be actively drained away from the facade by means of pebble beds or other capillary action layers. Plaster and plaster board should not be mounted directly onto the walls.

For strengthening flexible putties are only able to be used when not under mechanical stress. *F7200* is a physical and hydraulically drying material, with drying time depending on the temperature and relative humidity. Higher relative humidity and lower temperatures may extend the drying time by days. Relevant guidelines and regulations must be observed. These include DIN 18195 „Waterproofing of buildings and structures“, the technical bulletin from the Industrial Association of Concrete and Mortar Industry „Waterproofing of basement areas and buildings in contact with the earth“ (Wärmedämmverbundsysteme im Sockel- und erdberührten Bereich), the ZDB bulletins, guideline from the German Building Chemistry Association „Planning and Implementation of Waterproofing of Buildings in Contact with the Earth with Flexible Waterproof Sealants“ (**Planung und Ausführung von Abdichtungen erdberührter Bauteile mit flexiblen Dichtungsschlämme)** and the guideline for Facade Base Area plaster and external fixtures from the Technical Association of Stucco resp. Garden and Landscape design.

Safety information:

This product contains cement, and becomes alkaline in contact with water. Avoid contact with eyes and skin. Should contact occur with the skin, rinse the area thoroughly. Should contact with eyes occur, flush the eyes immediately with water and consult your doctor. Suitable protective clothing must be worn. Keep away from children. Water Pollution Class: WGK 1, after VaVwS. For further information on the handling, storage and disposal of this product please see the EG-safety data sheet.

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