

SHG Bauprotec 700 – Tanking & Plinth Render

SHG Bauprotec 700 is a factory produced Sand & Cement Render specially designed for hand and machine application produced to EN 998-1: 2003. It is manufactured from a controlled blend of selected aggregates, cement, polymers, fibres and other components to give a high quality water repellent rendering product which is suitable for use in external rendering and internal plastering. The unique tanking properties of this render makes it suitable for application on basement walls and plinths.

- Water Repellent
- Machine or Hand Application
- High Mechanical Stress
- Weather Resistant
- CE Marked
- EN 998-1:2003

Field Of Application

A tanking render for facades and walls constructed out of medium and high density blockwork (>6 N/mm²) and concrete. For low density blockwork or substrates, it is recommended to use SHG Bauprotec SLP.

Substrate

Substrates to be rendered should be examined for contamination, deterioration, surface roughness, suction and strength. Dust and contamination such as residues of concrete release agents, gypsum plaster, paint, other coatings, organic growth, salts and efflorescence should be removed prior to rendering. Salts and efflorescence should be removed by dry brushing (non-metallic bristles). Other special precautions may need to be taken if this removal is not achievable.

The line and flatness of the substrate should also be assessed to determine if the render can be applied to a uniform thickness or if dubbing out is required. The substrate should be dry and free of frost, with a temperature of +5 °C or above at the time of rendering. It is important for the wall not to be too wet at the time of rendering. Walls that have recently been exposed to heavy rain should be allowed to dry out sufficiently before rendering is attempted.

Preparation

SHG Bauprotec 700 should only be applied to mature stable surfaces. A minimum of one month should be allowed following completion of the wall construction before application of the render commences. In slow drying situations, a longer interval should be allowed. All substrates must be clean, sound and dust free as the render relies on a combination of suction and surface texture to achieve bond. The recommendations set out in EN 13914- 1:2005 and BS 5262:1991 should be followed. It is essential that all steps are taken to ensure that a satisfactory bond is achieved between the render and the substrate.

Instructions

SHG Bauprotec 700 can be applied using a suitable spray rendering machine, e.g. G4, G5, m3, S48, MP25 or SP11 and can be transported on all pneumatic conveyor systems. When hand applied, mix for 5 minutes using a suitable electric mixer. In case of great unevenness in the substrate (e.g. rough stone masonry) the recesses require dubbing out.

On high absorbent substrates, it is essential to apply the render in two passes, pressing the first pass well into the surface using a straight edge and trowel. Before the first layer dries, apply the second pass (wet in wet) extending the render to the desired uniform thickness.

When the render is partially set, finish to the desired finish using a steel float, wood float or grid float. The open time after mixing, is approximately two and a half hours. However, the open time greatly depends on the consistency of the render, the ambient temperature and the absorbency of the substrate.

Application

During application the temperature must be between 5-30°C. Bead out the application area with Stainless Steel, Aluminium or UPVC beading, which also serves as a reference for the thickness applied. Beads need to be carefully bedded in SHG Bauprotec 700. Always maintain a wet edge, when working in sections. In sunny weather, work should commence on the shady side of the building and be continued, following the sun to prevent the rendering drying out too rapidly.

Storage

12 months under dry conditions.

Practical Advice

We recommend the use of a mineral key coat on concrete and smooth / non-absorbent substrates prior to the application of Bauprotec 700. Fibreglass mesh must be embedded into the render when applied on critical substrates, in case of changes in substrate material and at stress points around openings.

Safety

Caution. This product contains cement, which becomes alkaline when wet and may cause skin irritation. Use goggles, gloves and protecting cream. Avoid prolonged contact with skin. Avoid inhaling the dust. Wash affected area with warm water and soap. Wash eyes thoroughly and consult a physician. Do not ingest. See Health and Safety Data Sheet for further information.

Technical Information

Dry Bulk Density	1400 kg/m ³
Compressive Strength	CS IV
Adhesion	>0.3 N/mm ² - Fracture Pattern B
Capillary Water Absorption	W2
Water Vapour Permeability	μ < 10
Thermal Conductivity	< 0.83 W/mK
Yield	1.40 kg/mm/m ²
Water Demand	5-6 l per 30kg bag
Reaction To Fire	A1 Non Combustible

	Südharzer Gipswerk GmbH Pontelstrasse 3, D-99755 Ellrich	
	09 EN 998-1 General purpose rendering/plastering mortar CS IV	
Reaction to fire	A1	
Direct airborne sound insulation	NPD	
Thermal resistance	NPD	

NPD Properties not determined as they are not relevant (No Performance Determined)



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