



BIOPLAST-GP

Air-entraining ground plaster according to WTA-Leaflet 2-2-91

- Air entraining backing coat plaster certified to WTA (International Association for Science and Technology of Building Maintenance and Monument Preservation)
- Mineral based factory produced mortar
- For use as a backing coat or levelling plaster
- Vapour permeable
- Can be applied mechanically or by hand
- Low consumption per surface area
- Interior or exterior levelling plaster
- For uneven surfaces with excess moisture or salt contained in natural-stone or brick-stone masonry



TECHINICAL FEATURES:

BIOPLAST-GP is a cement-lime based, ground and levelling plaster suitable for the restoration of wet and saline masonry on interior and exterior applications, in combination with BIOPLAST-LIGHT or BIOPLAST-EXLIGHT. It prevents the intrusion of water soluble salts in the masonry and in the green restoration plaster.

AREAS OF APPLICATION:

BIOPLAST-GP serves as a backing coat or levelling plaster beneath BIOPLAST-EXLIGHT or BIOPLAST-LIGHT on uneven areas for producing vapour permeable and dry plaster surfaces onto damp and/or salt laden interior and exterior walls.



ASSISTENZA
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GARANZIA
ASSICURATIVA



MEETING
TECNICI



PER USO
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CONTRACT ITEM SPECIFICATIONS:

The plaster will be applied by using one first coating, mineral based, transparent, for renovation, with certificate WTA, as BIOPLAST-GP by Benfer.

METHOD OF USE:

SUBSTRATES PREPARATION:

The substrate must be load-bearing and free from adhesion inhibiting substances such as separating agents, dust or other coatings. Remove old plaster, paints and coatings up to 80 cm away from the damaged area either visibly or by examination. Rake back crumbly masonry pointing to approx. 2 cm deep and mechanically clean the area. Concrete surfaces must be open textured. Pre-treat with BS-CONVERT where there is increased salt content. Apply a semi-blinding splatterdash coat of BIOPLAST-SP as a bonding coat (coverage 50%).

As an alternative to BIOPLAST-SP, the splatterdash coat can be produced as follows:

Emulsion comprising CEMLATEX 600 Water mixed 1:1 to 1:3. Dry blend comprising cement and washed sand – grain size 0.4 mm - mixed at a ratio 1:2 by volume. Produce a workable consistency from the emulsion and dry blend and use within approx. 1.5 hours.

PRODUCT PREPARATION:

BIOPLAST-GP can be prepared with all conventional continuous mixing pumps (e.g. PFT G4). If, due to machinery equipment, an air entrainment of 20-30% is achieved then there is no need for a secondary mixer. Small quantities can be prepared by hand with a drill mixer.

Machinery:

Pipe length: max. 20 m

Pipe size: 25 – 35 mm

Stator/rotor: D4-2 LP

Spray head for scratch coat: Nozzle size > 17 mm Water addition: approx. 150 – 175 l/min

PRODUCT APPLICATION:

BIOPLAST-GP can be applied in one coat in thicknesses from 10–30 mm. For thicker coats, apply in several layers. In this case, strike off the previous coat with a plasterer's darby and immediately the mortar stiffens, roughen up horizontally and allow to dry.

Keep to a waiting time of 1 mm per day.

ADVICE:

- Very damp substrates may cause a lengthening of the waiting time before surfaces can be roughened.
- Protect from strong sunlight.
- When planning and implementing restoration work consult the WTA information sheet "restoration plaster systems".
- Protect areas not being treated from the effects of BIOPLAST-GP. Please observe a valid EU Health & Safety Data Sheet.

Measures taken dependent on the degree of salting in accordance with WTA (International association for science and Technology for maintenance of buildings and restoration of monuments).

Degree of salting ¹⁾	Measures taken (cm)	Thickness (cm)	notes
Low	1. Splatterdash coat 2. BIOPLAST-EXLIGHT	$\leq 0,5$ $\geq 2,0$	As a rule the splatterdash dash coat does not completely cover
Medium High	1. Splatterdash coat 2. BIOPLAST-EXLIGHT 3. BIOPLAST-EXLIGHT	$\leq 0,5$ 1-2 1-2	Total thickness: Min. 2.5 cm, max. 4 cm roughen up previous coat as necessary
	1. Splatterdash coat 2. BIOPLAST-GP 3. BIOPLAST-EXLIGHT	$\leq 0,5$ 1-2 1-2	Drying time of individual coats: 1 mm/day

¹⁾ To be determined and calculated by preliminary testing.

CLEANING: In wet condition with water. Hardened product can be cleaned mechanically only.

CONSUMPTION: 8 kg/m² per cm thickness.

PACKAGING: 20 kg bags.

STORAGE: In dry storage, in original closed bags, use opened bags promptly.

SHELF LIFE: 6 months.

PRODUCT TECHNICAL DATA

Basis:	Cement-lime-based mortar
Class of mortar:	PII
Colour:	Grey
Water requirement:	36% = 9 lt per bag
Cleaning of tools:	In wet condition with water. Hardened materials may only be removed mechanically
Tests:	In accordance with WTA Leaflet 2-2-91
Storage:	In dry storage for approx. 6 months in original closed bags, use opened bags promptly

PLEASE NOTE: The information given in this chart is based on our best experience and indicative only. It must in any event be verified by the end user, who assumes all liabilities deriving from utilization of the product.