

## PRODUCT SPECIFICATION

PRODUCT	PROPERTY	MEASUREMENT
POLYPLAST	S.G	1,04
	Viscosity	95ku
	Solids	52+/- 2%
	Appearance	Milky white liquid



Ck. No.: 2009/191292/23 t/a

## PRODUCT DATA SHEET

### EBS POLYPLAST EXPANDED POLYSTYRENE PLASTER SYSTEM

#### INTRODUCTION

*Whilst expanded polystyrene (EPS) in use has many excellent attributes it often needs ancillary products such as plasters, coatings and glues to ensure its successful application in the building industry.*

*EBS Polyplast plaster provides protection and impact resistance to EPS used in applications such as walls, ceilings and mouldings.*

#### PRODUCT DESCRIPTION

EBS Polyplast is a combination of water based acrylics and short length fibre that when mixed with plaster sand forms a workable plaster mix that is easy to apply to EPS, does not shrink or stress crack, has excellent adhesion, is long lasting and provides the necessary impact resistance.

EBS POLYPLAST - is most commonly used as a standard mix ratio of 1 part EBS Polyplast to 7 parts plaster sand.

#### SYSTEM APPLICATION

- 1) Measure area to be plastered. At the thickness recommended (5-10mm) coverage of EBS Polyplast will be 1lt per 0.7 - 1.2m<sup>2</sup> of wall/slab.
- 2) Mix the EBS Polyplast with plaster sand only at the ratio 1:7. The easiest way to do this is to use a 25lt plastic bucket - 1 bucket of Polyplast to 7 buckets of sand.
- 3) Mix thoroughly; mixing in a concrete mixer is best practice to get a uniform mix.
- 4) If viscosity of mix is too thin add more sand and if too thick add more EBS Polyplast or water.

*Specialists in Eco Building Systems*

*P.O. Box 453, Bedfordview, 2008*

*18 Myrna Street, Knights, Germiston*

*Tel: 011 822 5252 • Fax: 011 822 5272 • Fax to Email: 086 651 3427 • Email: [info@mrhce.co.za](mailto:info@mrhce.co.za)*

*[www.tassgroup.co.za](http://www.tassgroup.co.za)*



- 5) It is easiest to plaster in two steps:
- Step 1 - using a 5 - 10mm notched trowel, apply a 'scratch' coat over the entire surface. This can be done quickly. Allow to dry overnight
  - Step 2 - using a metal float, apply a smooth finishing coat over the notched surface. Final finishing is best done with a wooden or rubber float using water sparingly on the surface.

The advantages of plastering this way is that the notching provides a mechanical key for the finishing plaster (it is difficult to apply a thick plaster coat to expanded polystyrene due to the smooth finish) and the 5- 10mm notches provide a template to control the final plaster thickness to 5-6mm.

- 6) As well as finishing with a rubber or wooden float, finishing can be done with a brush or Tyrolean machine.
- 7) EBS Polyplast can be painted with all types of decorative paints.
- 8) In areas with excessively high rainfall or high humidity it is recommended that a clear sealer is applied to any unpainted EBS Polyplast surfaces.
- 9) EBS Polyplast plaster takes up to 7 days to achieve full cure and if it rains in this period some softening of the plaster will be noted. Once dry the plaster will reharden and the curing process continues.
- 10) When plastering in areas with high humidity the drying and curing of EBS Polyplast may be retarded. To speed the drying process it is recommended that an alternative product EBS Polyplast is used as this allows some cement to be used in the plaster mix without any compromise to performance. The recommended mix ratio is: 1 part EBS Polyplast : 1 part cement : 7 parts plaster sand.

## PRODUCT BENEFITS

### **Excellent adhesion to EPS**

EBS Polyplast was formulated to provide a product that has good long term adhesion to EPS. EBS Polyplast provides a chemical key to the polystyrene surface.

### **Resistance to cracking**

EBS Polyplast does not shrink crack. The elimination of cement from the mix eliminates any shrinking on drying. As EBS Polyplast retains some flexibility it resists cracking associated with building movement.

### **Easy to mix, easy to apply**

EBS Polyplast can be easily mixed by hand although mechanical mixing is recommended. The product is easy to apply by conventional plastering methods and can be straight edged if required.

### **Natural appearance**

EBS Polyplast takes on the colour of the plaster sand used giving a 'natural' appearance to the wall or building if left unpainted.

### **Water repellent**

Although EBS Polyplast is not water resistant due to the high sand loading it does have water repellent properties. If the resin to sand ratio is increased the water repellency of the product increases.

### **Impact resistance**

Once fully cured, EBS Polyplast provides a tough hard surface giving excellent impact resistance to the EPS.

### **Versatile**

Although EBS Polyplast was developed specifically for application onto EPS it can be used as a decorative finish onto cement, brick and concrete. Due to the sand filler loading and inherent flexibility it can be used as a filler coat to bridge and hide cracks.

### **Long lasting**

The resins used in EBS Polyplast are high quality water based acrylics which resist UV degradation and weathering.

### **Cost competitive**

EBS Polyplast plaster at 6mm thickness is cost competitive against normal sand cement plasters at 15-20mm thickness.

## FINISHING OF PLASTERED WALLS

### **'Natural' appearance**

EBS Polyplast walls can be left unpainted with the finished wall taking on the colour of the plaster sand used.

To maintain a uniform finish colour ensure the plaster sand comes from the same source and that sufficient quantities are mixed in one batch to plaster an entire wall section or panel. Slight colour variances can be expected from mix to mix even when the sand comes from the same source.

### **Sealers**

To improve the water resistance of the plaster clear sealers can be applied to EBS Polyplast. Sealers tend to darken the plaster slightly.

Two sealer options are available from EBS:

- 1) Dilute EBS Polyplast with 4 parts of water and apply by brush, roller or spray.

Do not use a higher resin to water ratio as this will not provide a transparent film and the result will be milky finish.

- 2) Use Plasterseal which is a clear styrene acrylate sealer. Properties of Plasterseal:

UV Resistance:	Excellent
Water Resistance:	Excellent
Colour:	Transparent
Coverage:	10-12m <sup>2</sup> /litre

### **Paint**

All commonly used exterior and interior paints can be applied to EBS Polyplast walls.