



奧迪美®

# BP22GP GYPSUM PLASTER

## SPRAY AND HAND APPLIED WALL GYPSUM PLASTER

### PRODUCT DESCRIPTION

**OPTIMIX BP22GP GYPSUM PLASTER** is a high quality polymer enhanced gypsum plaster designed for levelling and smoothing interior walls and ceilings typically in preparation for receiving a finishing coat of gypsum skimcoat or sometimes directly receiving paints and other coatings.

Specially formulated for ease of installation and rapid levelling of large areas, **OPTIMIX BP22GP GYPSUM PLASTER** is ideal for both spray or hand application onto typical construction substrates such as cured concrete. It bonds well to the substrate and hardens quickly to a quality finish.



### TYPICAL USAGE

- Interior Smooth Plastering onto gypsum, concrete, mortar, cement board, plasterboard etc.
- Hand application for versatility and small scale projects
- Spray application for rapid smoothing of large scale projects
- Refurbishment and new build projects

### FEATURES AND BENEFITS

- Meets EN13279 including:
  - Class B
  - Class B1/20/2
  - Reaction to Fire Class A1
- Consistent Quality
- Good Strength & Bond Performance
- Simple and Easy to Use
- Excellent Surface Finish
- Cost Effective

## TECHNICAL DATA

Mixing <sup>1)</sup>	Hand Mixing
Water Addition	~ 12.5 L per 40 kg bag
Mixing Method	Forced Action Mixer e.g. Low Speed (~500rpm) Drill & Paddle
Mixing Time	Mix for about 5 minutes or until homogeneous and lump free, normalise for 5 minutes then briefly remix before use.

Performance <sup>2)</sup>	Hand Mixing	Test Method
Compressive Strength	> 2.0 MPa	BS EN 13279-2
Flexural Strength	> 1.0 MPa	
Adhesive Strength	> 0.1 MPa	
Setting Time (Initial)	> 50 minutes	
Wet Density	~ 1,400 kg/m <sup>3</sup>	In House Method
Dry Density (after solidification)	~ 1,170 kg/m <sup>3</sup>	In House Method

Packaging & Yield <sup>3)</sup>	
Coverage	~ 1.40 kg of wet paste per mm per m <sup>2</sup> ~ 1.08 kg of dry powder per mm per m <sup>2</sup>
Yield (per 40kg bag)	~ 37 L of wet paste
Packing Size	40 kg/bag
Shelf Life	Maximum 4 months

Environmental Data	
Volatile Organic Compounds (VOC)	≤ 10 g/L
Potential BEAM points	Product is manufactured within 800km of Hong Kong project sites
Packaging Composition	Paper bags incorporating 40% recycled paper

### Notes

- 1) Water addition will depend on equipment and skill of applicator. For machine mixing and spray application refer to the equipment manufacturer for advice.
- 2) Typical results achieved in laboratory conditions and for reference only. Actual results on site will vary with ambient and substrate conditions.
- 3) Approximate figures make no account for wastage of any kind.





## **INSTALLATION GUIDE**

*(Refer to Method Statement for more details)*

### **SURFACE PREPARATION**

Substrate must be dry or damp to the touch, clean, free from loose particles, oil, grease and other contaminants.

If the weather or ambient conditions are very hot or dry then for best results it may be necessary to dampen the substrate with potable water immediately before application.

**OPTIMIX SF80** may be applied as a surface moisture sealer and allowed to dry just before application of the gypsum plaster.

### **MIXING**

Mix one bag of **BP22GP GYPSUM PLASTER** dry powder with the specified amount of potable water by using a low speed (~500RPM) forced action mixer. For easy mixing add the required amount of water to the mixer, begin mixing and add the powder and continue to mix until a lump-free homogenous mix is achieved.

Leave the mixed material to stand and normalize for a few minutes then briefly remix before use.

### **APPLICATION**

The **BP22GP GYPSUM PLASTER** should be applied as soon as possible after mixing and within the pot life of the mixture. If the mix begins to lose workability then do not add more water, discard the material and prepare fresh.

Application can be done by hand trowel or wet spray equipment. Levelling and troweling should be done soon after installation.

Application thickness should be in 1 or 2 layers wet on wet to achieve approximately 5mm to around 15mm thickness.

**Hand Application** we recommend an initial layer of around 1-2mm should be applied as a scratch coat to ensure complete coverage and good contact with the substrate.

A subsequent layer should be applied within 20-30 minutes of the first layer to achieve level and thickness as required with the minimum of trowelling.

**Spray Application** may be applied in a single layer or built up in a few layers according to the equipment and site practice.

### **LEVELLING & FINISHING**

Allow the surface to firm up before using light trowelling to remove or close any blemishes and achieve the desired surface finish. A light misting with clean water on the surface or on the trowel can help to close the surface completely.

Depending on application method and site conditions **BP22GP GYPSUM PLASTER** will remain highly workable and easy to finish for about 30 minutes after installation. High temperatures and strong drying influences will reduce the working time. For best results it should be levelled immediately after installation and struck off to the desired finish as soon as it has firmed up.

If there is a problem with excessive pinholes and bubbles during finishing then the substrate may be too dry, too textured or both. If additional dampening of the substrate doesn't improve the situation then Optimix recommend priming the surface with **OPTIMIX SF80**.

### **CURING & PAINTING**

Additional curing is not normally required but high temperature, low humidity or strong drying influences can cause cracks or weak and powdery surface. To prevent this the recently hardened surface can be improved with regular misting with water for the first few hours after installation.

Optimix recommend waiting at least 3 days before applying any other coatings to allow



moisture in the plaster and underlying substrate to be released.

If needed surface blemishes such as trowel marks can be removed with light sanding prior to installing finishing and decorative coatings.

### LIMITATIONS

Do not over-work the surface as this can lead to parallel cracking, a weak surface and possible debonding. Some skill and experience is needed to quickly achieve a level and smooth finish.

The installation should be protected from significant drying influences such as direct sunlight, strong wind or high temperatures for at least 48 hours.

### HEALTH AND SAFETY

**OPTIMIX BP22GP** is alkaline in nature and can cause irritations to persons with sensitive skin. Avoid inhalation of dust and contact with skin and eyes. Wear suitable protective gloves and masks while handling the product. If contact with eyes, rinse immediately with plenty of clean water and seek medical advice. This product is non-toxic and is not flammable.

### STORAGE

Store the products in a cool and dry place with the original unopened bags on pallets with plastic wrapping. Protect from direct sunlight, rainfall and exposure to high humidity conditions. Avoid excessive stacking of pallets. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging and reduce shelf life.

### ALTERNATIVE PRODUCTS

Other similar products in the Optimix range include:

- **SC212** Skimcoat (Flexible Tile Filler)
- **SC228** Skimcoat
- **SC273** Skimcoat (Putty for Paint)
- **SC26GP** Gypsum Skimcoat



**Important Note:** The information contained herein is, the best of our knowledge, true and reliable and is supported by the present state of our knowledge. No warranty is given or implied in connection with any recommendations or suggestions made by us or our representatives as the conditions of use and any labour involved are beyond our control.



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