GYPSO Eco Screed

GGBS-based, Low Carbon Footprint Floor Screed and Mortar

Uses

- Leveling for rough and uneven concrete floors
- Suitable as underlayment or overlayment, and repairing of internal and external concrete floors
- Suitable substrate to receive ceramic and tiles
- Easy application
- Low carbon emission, environmental-friendly

Product Description

GYPSO Eco Screed is a low carbon, environmentally friendly, ready-mixed floor screed and mortar contains recycled by-product together with our GYPSO binder to meet stringent requirements.
GYPSO Eco Screed is ideal for screeding and repairing of indoor and outdoor concrete floors. It is a ready-to-use pre-pack product simply adding clear water on site with good workability and provides low shrinkage and high compressive strength.

Advantages

- ✓ **Eco-Friendly Composition**
  GGBS-based, reducing carbon footprint and environmental impact compared to traditional cement-based products.
- ✓ **High Compressive Strength**
  Achieves up to 45 MPa, suitable for demanding applications.
- ✓ **Low Shrinkage**
  Minimizes the chance of cracking, ensuring long-lasting performance.
- ✓ **Easy Application**
  Fixed mixing proportions guarantee consistent quality and ease of use.
- ✓ **Enhanced Workability**
  Designed for straightforward mixing and application, reducing labour time and effort.
- ✓ **Non-Toxic**

Standard Compliances

- ▶ **BS EN 1015**
- ▶ **BS EN 13892**
- ▶ **HKHA MTS**

Technical Data

Properties	Test Results
Compressive Strength	≥45.0 N/mm² @28 Days
Flexural Strength	≥ 8.0 N/mm² @28 Days
Bond Strength	≥ 0.8 N/mm² @28 Days
Wet Density	2,240 kg/m3
Dry Density	1,890 kg/m3
Recommended Application Thickness	Over 10 mm
Pot Life	≤ 120 minutes
Setting Time	4 - 6 hours
Water Demand	Approximately 5.0 - 5.5 L / 40 Kg bag
Mixing (Electric mixer)	4 - 5 minutes
Coverage	Approximately 1.80 – 1.85 Kg/m2/mm

Usage Instructions

Surface Preparation

Substrate must be clean, free from unsound material, oil, grease and other contaminants. It is recommended to clean the substrate with high pressure water jet to remove dust and loose particles. It is recommended to pre-treat the substrate surface with diluted GYPSO Bond 502 Primer or Bond 503 Bond Coat to enhance the adhesion properties and let the primed substrate becomes touch dry or tacky.

Mixing and Application

- Mix one bag of GYPSO Eco Screed dry powder with 5.0 - 5.5 L potable water. Mechanical mixing with slow speed drill fitted with a suitable paddle is recommended. Mix the ingredients for about 4 - 5 minutes or until a lump-free homogenous mixture is achieved.
- The mixed mortar should be spread and laid to position within the working life which is dependent upon ambient temperature and relative humidity. The surface can be finished with a wooden float or steel trowel where appropriate.

Finishing and Curing

- The levelness of the finished surface is largely dictated by the techniques of laying or application methods. The hardened screed should be cured with water spraying for initial several days or be treated with appropriate curing compound to improve the performance.
- GYPSO Eco Screed is a low carbon screed does not crack by itself. However, minor surface defects, which pose no detrimental effect to the performance of flooring, may occur due to substrate movement or other external factors beyond our control.

Application

- GYPSO Eco Screed should be laid in place within the working time and self-healing time. This depends on many factors, including water usage, water temperature, mixing method, substrate condition, ambient temperature, relative humidity, sunlight and airflow.
- The construction thickness of GYPSO Eco Screed should be over 10 mm. Please kindly note that you should always see our manufacturer's application guidelines for the best results. The information in this data sheet covers general practices, but may not apply in part or in whole for your specific situation.

**Work should be prohibited if temperature below 10°C, rainy, snowy day, high wind speed.

Curing

GYPSO Eco Screed can be cured using wet hessian, polyethylene sheeting, or a spray-on curing compound. The curing period should last at least 5 to 7 days.

Packaging

Product	Pack Size
GYPSO Eco Screed	40 Kg Bag

Shelf Life & Storage

The original sealed bag of GYPSO Eco Screed has a shelf life of 12 months provided that it is stored in a dry shaded place below 25ºC and clear of ground.

Limitations

- Do not mix with any additives or products, unless recommended by GYPSO.
- Make sure the substrate is suitable for application. In case of doubt, try on sample area to assess its suitability.
- Do not apply the product at temperature less than 10ºC. During summer season the working area must be covered to prevent ill-effects from direct sun and also excessive air-draught during initial curing stage.
- Tools should be cleaned with water before the mortar hardens. After the hardening, its residuals can be removed mechanically only.

Health & Safety

- GYPSO Eco Screed is a powder-based material therefore avoid direct contact with eyes or skin.
- It is recommended to use protective gloves and goggles during application. Any skin contact should be washed with soap & water.
- In case of eyes irritation, immediately wash with copious amount of cold water. Seek medical advice.

For further information, please refer to material safety data sheet.

Disclaimer

The information, picture and physical data in this technical data sheet is based on our best knowledge under standard testing methods and controlled environments. However, please be aware that results may vary due to factors beyond our control, such as weather conditions, site conditions, workmanship, or substrates. This technical data sheet is intended for general guidance only, and we cannot provide a warranty for the ultimate performance and application results of these materials if they are not kept, mixed, applied, or cured strictly according to the requirements and instructions outlined in this data sheet or in other supplementary documents.