

**High Strength Adhesive Mortars for the All Types of Granite & Tile Bonding**

**Cem Gum 1000** Horizontal Surfaces Adhesive  
**Cem Gum 2000** Vertical Surfaces Adhesive

**Description** **Cem Gum**, is totally compatible with all forms of hydraulic cement and inert fillers such as silica sands, slate and granite.

It is designed as an additive for use with ordinary Portland Cement and sand to prepare high strength adhesive mortars with beds up to 15mm thick.

**Cem Gum**, is ideal for fixing granite, ceramic tiles, paving tiles, brick, slate, marble and stone to all non-metallic building surfaces on both internal and external faces.

**Advantages**

- Simple to mix and apply.
- Adhesion safe and rapid
- Waterproof and water resistant
- No flash, no hazard, no fumes
- Freeze / thaw / heat resistant
- Creep resistant
- Salt water resistant
- Shock resistant
- Ultra-violet light resistant

**Protection** The cured mix is water and weather resistant at both high and low temperatures. Water vapour transmission will be reduced by 90% and resistance to carbonation will be ensured for more than 60 years with a minimum bed thickness of 12mm.

Mix Design	Cem Gum 1000	Cem Gum 2000
Mix of Water	2.8-4.0 litre per 25kg bag	2.8-3.5 litre per 25 kg bag
Yield of Volume	±15.50 litres	±14.40 litres
Density	>1.65/cm <sup>3</sup>	>1.72/cm <sup>3</sup>
Coverage	±6.1/m <sup>2</sup> @ 2.5mm thick ±5.2/m <sup>2</sup> @ 3mm thick ±3.0/m <sup>2</sup> @ 5mm thick	±5.9/m <sup>2</sup> @ 2.5mm thick ±5.0/m <sup>2</sup> @ 3mm thick ±2.8/m <sup>2</sup> @ 5mm thick

Premix the dry constituents and add correct volume of **Cem Gum 1000 or 2000** and mix to even consistency with water, the aid of a mechanical mixer.

**Preparation** The surface of the sub-floor must be clean, sound and free from dust, plaster droppings, grease, paint, polish, and any water-soften able or loosely adhered materials. On absorbent surfaces it may be necessary to damp down, or prime the surface using the **Gem Primer** and allow drying before applying the **Cem Gum 1000 or 2000** adhesive.

To level uneven sub-floors and provide a smooth surface prior to the application of Floor Coverings or Tiles or Sheets. **Cem Bond SL 30 or Cem Bond 1K (Cementitious Self-Leveling System)** can be applied on all common sub-floors as concrete and cement/sand screeds, asphalt, wood, quarry tiles, internal steel decks, etc.

**Application** The mixed material is poured onto the prepared floor surface and spread with a special steel trowels (Serration A3 Trowel) to the required thickness in one operation. Apply at temperatures above 5°C. **Cem Gum 1000 or 2000**

**Technical Data**

Typical of Properties	Tested	Test Temp	Cem Gum 1000	Cem Gum 2000
<b>Viscosity</b>	mPas	25°C	40000-60000	45000-75000
<b>pH-Value</b>			6.5-7.5	6.5-7.5
<b>Specific Density</b>	Kg/Litre		1.65	1.65
<b>Consumption</b>	g/m <sup>2</sup>		Refer to Coverage	Refer to Coverage
<b>Waiting Time</b>	Minutes		30-60	15-25
<b>Open Time</b>	Minutes		120-240	75-120
<b>Set to Load Bearing</b>	Hours		72	72
<b>Full Strength</b>	Days		14	14
<b>Moisture Resistance</b>			Yes at 2.0% C.M tester	Yes at 2.0% C.M tester
<b>Compressive Strength</b>	N/mm <sup>2</sup>		45	55
<b>Tensile Strength</b>	N/mm <sup>2</sup>		5.2	5.5
<b>Bond Strength</b>	N/mm <sup>2</sup>		1.6	1.8
<b>Flexural Strength</b>	N/mm <sup>2</sup>		12.5	13.0
<b>Modulus of Elasticity</b>	N/mm <sup>2</sup>		26.3	32.1

**Recommended Trowels**

Serration A3 or A2 for PVC with Smooth Backing	Trowel A3	Trowel A2
Note: Depth of Serration Trowel	: 1.65mm	1.65mm
Width of Serration Trowel	: 1.50mm	1.80mm
Bridge of Serration Trowel	: 0.50mm	1.20mm

**Tile Grout** Fill joints between tiles using **Cem Tile Grout**.

**Clean Up** Clean tools and equipment immediately in water. Polish tiled surface with a soft cloth approximately 6 hours after grouting. Allow 24 hours before putting tiled area into service.

**Colors Available** Powder Form, Natural Cement Gray

**Packaging** **Cem Gum 1000** 25 kg bag/Net weight  
**Cem Gum 2000** 25 kg bag/Net weight

**Storage Shelf Life** **Cem Gum 1000 or 2000**, 12 months if stored in dry conditions.

**Health and Safety** **Cem Gum 1000 or 2000** is water based, does not have a flash point and is non flammable. It is considered non-toxic and is not considered harmful. Spillages can be washed from skin or clothing with water.

**Handling Precautions**

Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets and the brochure "Hygienic Precautions for Handling Plastic Products"

**The General Term & Conditions**

All recommendations for use of our product, whether given by us in writing, verbally, or to be implied from the results of tests carried out by us are based on the current state of our knowledge. Notwithstanding any such recommendations the Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for this intended process or purpose. Since we cannot control the application, use or processing of the products, we cannot accept responsibility therefor. The Buyer shall ensure that the intended use of the products will not infringe any third party's intellectual property rights. We warrant that our products are free from defects in accordance with and subject to our general conditions of supply.

The above mentioned details Specified key data are individually checked throughout, guarantee, and included in the certificates of Analysis (CoAs). & Typical key data are spot checked, the value are typical for the product and are indicated for information only. The values are not guaranteed or included in the CoAs.

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