

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 ³ | >1.72/cm ³ |
| Coverage | ±6.1/m ² @ 2.5mm thick ±5.2/m ² @ 3mm thick ±3.0/m ² @ 5mm thick | ±5.9/m ² @ 2.5mm thick ±5.0/m ² @ 3mm thick ±2.8/m ² @ 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 |
|------------------------------|-------------------|-----------|------------------------|------------------------|
| Viscosity | mPas | 25°C | 40000-60000 | 45000-75000 |
| pH-Value | | | 6.5-7.5 | 6.5-7.5 |
| Specific Density | Kg/Litre | | 1.65 | 1.65 |
| Consumption | g/m ² | | Refer to Coverage | Refer to Coverage |
| Waiting Time | Minutes | | 30-60 | 15-25 |
| Open Time | Minutes | | 120-240 | 75-120 |
| Set to Load Bearing | Hours | | 72 | 72 |
| Full Strength | Days | | 14 | 14 |
| Moisture Resistance | | | Yes at 2.0% C.M tester | Yes at 2.0% C.M tester |
| Compressive Strength | N/mm ² | | 45 | 55 |
| Tensile Strength | N/mm ² | | 5.2 | 5.5 |
| Bond Strength | N/mm ² | | 1.6 | 1.8 |
| Flexural Strength | N/mm ² | | 12.5 | 13.0 |
| Modulus of Elasticity | N/mm ² | | 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"

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