

# LIQUID GRANITE

Indispensable, multi-purpose, emergency repair material



**Liquid Granite is an amazing floor repair material that sets in minutes and adheres to a wide range of building materials including concrete, metal and asphalt.**

## What is Liquid Granite?

Liquid Granite is a self-contained, pre-mixed cement, blended with specially selected aggregates. Its handled bucket means that it can be carried to the site of repair with ease and only needs to be mixed with water to produce a firm mortar.

Liquid Granite can repair a range of problems from holes and cracks in the floor to crumbling walls and ceilings, plus loose bolts and posts. Mix to a firm consistency to repair overhead or vertical surfaces. Pour a more fluid mixture into horizontal areas. Trowel to finish.

## What is Liquid Granite?

Sets as a permanent repair in minutes.

Highly durable – high levels of tensile strength.

Chloride free – can be safely used with cast iron and steel units.

Easy to use – just add water, mix thoroughly and apply.

Works in damp and wet conditions.

Use on concrete, brickwork, stone and asphalt.

Repair walls, floors, columns, loose posts and bolt fixings.

Works down to temperatures of -20°C.

Mortar can be placed in sections of 8mm to 50mm in thickness and greater thickness can be built up in layers.

Pour or trowel onto area for repair.

## Instructions of use

### Preparation

Laitance and all loose material including dust, oil and grease should be removed in order to produce a sound substrate. The work area should be pre-wetted taking care to remove any standing water.

## Mix Designs

The water requirement for each 10kg of Liquid Granite to attain the desired consistency is:

Mortar – 0.6 – 0.7 litres

Grout – 0.8 - 0.9 litres

Concrete – 0.7 – 0.9 litres (add 4kg of 10mm pea shingle to each 10kg Liquid Granite)

## Mixing

Excess mixing water should not be used. When mechanical mixing is used, wet down the mixing vessel then drain all free water. Add the measured quantity of mixing water and add the full amount of Liquid Granite. Mix for at least one minute. Suitable mixers include a slow speed, high torque drill and Mortar Stirrer. For mixing at temperatures below 5°C, pre-warm the mixing vessel with warm water and use warm mixing water. Suitable water temperatures are approximately 25-30°C.

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## Curing

No special curing is required at temperatures between 5°C and 35°C. Reinstatement of road surfaces may be undertaken within one hour of placing. Roads may be opened to vehicular traffic within two hours of placing.

## Placing

Place the mixed mortar as soon as mixing is complete. The chemical setting of Liquid Granite is rapid and all material should be placed within 10 minutes of adding the mixing water. The mortar should be fully compacted to obtain maximum strength.

## Technical Information

Typical Grout Properties @ 20°C - Compressive Strength

Mortar, water content 0.6 litres per 10kg	
¾ Hour	15N/mm <sup>2</sup>
2 hours	25N/mm <sup>2</sup>
7 days	48N/mm <sup>2</sup>
28 days	55N/mm <sup>2</sup>

Grout, water content 0.8 litres per 10kg	
¾ Hour	14N/mm <sup>2</sup>
2 hours	24N/mm <sup>2</sup>
7 days	33N/mm <sup>2</sup>
28 days	37N/mm <sup>2</sup>

Concrete, water content 0.7 litres per 10kg	
¾ Hour	13N/mm <sup>2</sup>
2 hours	23N/mm <sup>2</sup>
7 days	34N/mm <sup>2</sup>
28 days	37N/mm <sup>2</sup>

**Density:** 2200kg/m<sup>3</sup>

**Shrinkage:** Volume stable

**Bond Strength - slant shear:** 40N/mm<sup>2</sup>

**Application temperature range:** -20°C to 35°C

**Coverage:** 0.75m<sup>2</sup> @ 8mm

**Storage:** Keep Liquid Granite in dry conditions and at a temperature of 5°C to 45°C

**Shelf Life:** 6 Months

## Health and Safety

Liquid Granite is a slight irritant when mixed with water and should not come into contact with skin or eyes. Please ensure that the Safety Data Sheet is read in its entirety before using Liquid Granite and all appropriate PPE is worn whilst in use.

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