



Very
High
Durability
Repair &
Prevention
Systems



Certified Quality System since **FEBRUARY 1993**

From Project to Jobsite

BS 37/m GUNITE

NORMAL SETTING SHOTCRETE

CE approved – Certificate n. 1305 - CPD - 0808
EN 1504-3 Class R4

Description **BS 37/m GUNITE** is a one-component premixed mortar made of hydraulic binders, micro-silica, selected aggregates and special additives. It is a shotcrete mortar for dry spray used for the repair or profiling of concrete, rock, stone or masonry, with or without reinforcement mesh. **BS 37/m GUNITE** is to be applied by means of suitable dry spray equipment.

Advantages and characteristics

- excellent adhesion
- resistant to sulphates
- non-reactive aggregates
- low alkali content
- polymer modified
- resistant to freeze / thaw cycles in the presence of chlorides
- limited rebound
- excellent resistance
- excellent durability
- waterproof
- resistant to sulphates

Indicated use

Once mixed with water at the nozzle **BS 37/m GUNITE** forms a polymer improved, shrinkage compensated spraymortar, with excellent adhesion and mechanical properties.

Some application examples:

- Repair of concrete coverings in road tunnels.
- Covering stone or masonry in tunnels.
- Repair of bridges damaged by oxidation of metal reinforcing.
- Repair of hydraulic works such as canals, tunnels, reservoirs, etc.
- Repair of industrial concrete structures

Application

Preparation of the substrate (concrete, masonry, rock)

Remove all foreign materials, oil and any other type of contaminant, which may impair proper adhesion. Clean the exposed reinforcement bars. It is recommended to prepare the concrete substrate using high-pressure blasting or scarifying.

The reinforcement bars exposed to apply the passivating **MuCis® Protezione Ferro** with corrosion inhibitor.

Mixing

Mixing liquid drinking water

Wet density 2,28 kg /dm³



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Apply **BS 37/m GUNITE** on substrate saturated with water, up to the desired thickness, with layers in sequence of 20 ÷ 30 mm each, from the bottom upwards.

For thicknesses greater than 50 mm, it is recommended that extra steel net (net with max width of 150 mm).

BS 37/m GUNITE can be finished with a trowel. Avoid excessive handling.

Recommended equipment for the application

OCMER TYPE OCM030

Substrate

In warm or windy weather conditions, it is advisable to moisten the product as long as possible by water spray, immediately after initial setting. At low temperatures, cover with an insulation foam, polystyrene or other insulating material. Protect from rain until complete set of the product.

Remarks:

Do not apply **BS 37/m GUNITE** at temperatures below 5°C or when it is expected that the temperature will drop below 5°C during the next 24 hours.

Do not apply **BS 37/m GUNITE** on frozen substrates. The quality of the spray application depends largely on the skill of the applicator.

Cleaning and maintenance

Clean equipment and material with water.

Technical characteristics (typical values)

• Compressive strength	N/mm ²	55 (28 d.)
• Flexural strength	N/mm ²	9,5 (28 d.)
• Modulus of elasticity	N/mm ²	30.000 (28 d.)
• Adhesion to concrete substrate	N/mm ²	> 3 (28 d.)
• Pull-out	N/mm ²	> 20 (28 d.)
• Type of mortar		Spray mortar
• Number of components		one
• Advised thickness	mm	10÷100 (steel net)
• Application		Dry spray
• Dimension max. aggregate	mm	2,5
• Waterabsorption	%	< 1
• Typical application		Structural repairs
• Dosage/Consumption	Kg/m ² /mm	2,05

Packaging Bags of 25 kg or bigbags of 1.000 Kg.

Safety indication Carefully read the instructions on the packaging or consult the Material Safety Data Sheet of the product.

The above information is based on our best experiences and lab results and on results of the application of the product in various fields. Tecnochem Italiana is not responsible for negative performances due to not proper use of the product or for defects due to elements not connected with the quality of the product included wrong storage. Technical characteristic in this technical data sheet are up-to-dated periodically. Revision date of this technical data sheet is indicated below.

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BS 37/m GUNITE
page 2/2