

## General

Most of the buildings in India have 'Brick Bat Coba' topped with 'China Mosaic' (CM) on their terraces for waterproofing purpose. But because of improper selection of materials and lack of proper supervision due to time constraints deterioration occurs within the first year itself leading to leakages.

Repairing BBC topped with CM chips requires removal of old layer using chisels and hammers. There is always a risk of damage to the roof slab when blows are applied to remove the existing layer.

We, at **GREENSHIELD<sup>®</sup>** have thoroughly studied these problems and after consultation with many Technical Consultants have come up with a revolutionary treatment method, called **GS 102<sup>®</sup>** which can be applied directly over BBC **without causing any damage to the roof slab.**

## Description

**GS 102<sup>®</sup>** uses a material which is flexible cement based of 2 components polymer modified waterproof coating. It seals pores voids and cracks of substrates and yet provides a breathable coating which allows water vapour transmission. This also acts as a protective layer against aggressive gas such as carbon dioxide and from frost and thawing salts.

Our material consists of Portland cement, selected and well graded sand and plasticiser, formulated with specially selected and graded fine quartz and high quality polymer to create brushable, smooth slurry with excellent bond and adhesion to most substrates.

## Uses

**GS 102<sup>®</sup>** is suitable for use in:

- Bathrooms/ toilet slabs and kitchen sinks
- Concrete gutters.
- Roof Terraces
- Multi storey parking bays.
- Small water tanks

## Advantages

1. Minimum surface preparation
2. Applied directly to the concrete by brush or spray
3. Breathable - allows transmission of water vapour from interior of building
4. Good elongation
5. Can be applied on damp surfaces.
6. Excellent adhesion bonds to porous and non-porous surfaces
7. Toxic-free and flexible
8. Non-corrosive to steel and iron.
9. High resistance to carbon dioxide and chloride ion diffusion.
10. Absolutely no damage to the slabs during application

## Technical Data

Property	Typical Results
Compressive strength	40 N/mm <sup>2</sup>
Toxicity	Non toxic
Adhesive strength	1.15 N/mm <sup>2</sup>
Tensile strength	2.42 N/mm <sup>2</sup>
Flexural strength	5.05 N/mm <sup>2</sup>
Abrasion strength	0.336 after 1000 cycles
Water vapour permeability	0.27 x 10 <sup>-11</sup>

## Application

After 3 days (depends on the climate) of **GS 102<sup>®</sup>** treatment a protective screed consisting of cement-sand-polymer in 1:4 proportion with proper gradient (min 1 in 100) can be provided to prevent any damage to the coating due to heavy foot traffic, vehicular traffic etc.

## Time Interval after application

The freshly applied **GS 102<sup>®</sup>** treatment shall be protected from direct rain, dirt, oil, grease or other loose particle for at least 12 hours. It is foot trafficable after 24 hours and resistant to light mechanical stress after 3 days. Permanent water pressure resistance shall be achieved after a full hardening of 14 days.

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