

Formcoat GSR100

Water based surface retarding gel for concrete



Description

Formcoat GSR100 is a ready for use, water based. Single component, concrete gel surface retarder.

Applications

Formcoat GSR100 is used to produce an exposed aggregate concrete finish and to produce mechanically good construction joint. Formcoat GSR100 is ideally designed for use in either face up or face down concrete elements in the following applications:

- ▲ All types of cast in situ concrete elements.
- ▲ Pre-cast concrete elements.
- ▲ Construction and Contraction joints.

Advantages

- ▲ Single component, easy to apply; can be brushable and sprayable.
- ▲ Suitable for all types of concrete elements, shapes and strengths.
- ▲ No independent release agent required.
- ▲ Can be used for both face up and face down applications.

Method of Use

Surface Preparation

Formwork must be non-porous and cleaned of surface deposits, rust, concrete, oil or other materials. Porous timber and formwork should be coated with suitable polyurethane sealer.

Application

- ▲ Formcoat GSR100 should be mixed well before use by suitable mechanical mixer.
- ▲ Formcoat GSR100 can be applied using brush, spray or roller at a rate of 0.1 - 0.2 litre/m² per coat. One coat is normally needed.
- ▲ To obtain face down finish, Formcoat GSR100 shall be applied and left for 20 - 25 minutes to reach a complete dryness before placing concrete. However, touch dry time varies depending upon ambient temperature.
- ▲ To obtain face up applications, apply Formcoat GSR100 as soon as the surface bleed water has disappeared, Formcoat GSR100 should be spray applied at the rate of 0.15 - 0.25 litre per m².

Technical Properties:

Appearance:	Green liquid
Specific gravity:	1.05 ± 0.05
Viscosity:	10 - 20 poise
Penetration depth:	0.5 - 8 mm @ 0.15 ltr/m ² (depending on water dilution rate)

- ▲ Once the concrete shutter or moulds removed or the face up concrete surfaces reached final setting, the retarded portion of concrete surface layer is easily removed by water washing or wire brush.

Note:

Application of Formcoat GSR100 for the face up applications should not begin until the concrete is free from surface water, and should not commence at all if bleed water is apparent on the concrete surface.

Formcoat GSR100 water dilution rate guide:

Dilution ratio by weight Formcoat GSR100 : Water	Penetration depth (mm) @ 0.15 ltr/m ²
1 : 5	0.5 - 1
1 : 4	1 - 1.5
1 : 3	1.5 - 2
1 : 2	2.1 - 2.7
1 : 1	2.8 - 3.2
1 : 0 (Formcoat GSR100 Undiluted)	7 - 8

Note:

The penetration depths are approximate and depend on cement grade, w/c ratio and aggregate mix (consult our Sales Department for further details).

Packaging

Formcoat GSR100 is available in 1, 5 and 18 litre buckets.

Formcoat GSR100

Storage

Store under cover at temperatures between 5°C and 40°C.

Shelf Life

Formcoat GSR100 has a shelf life of 12 months from date of manufacture if stored in proper conditions and sealed drums.

If these conditions are exceeded, DCP Technical Department should be contacted for advise.

Cautions

Health and Safety

Formcoat GSR100 should be treated as potentially harmful. Formcoat GSR100 should not be swallowed or allowed to come into contact with skin and eyes. Avoid inhalation of vapours and ensure adequate ventilation.

Wear suitable gloves and eye/face protection. Should accidental skin contact occur, remove immediately with soap and water- do not use solvent.

In case of contact with eyes rinse immediately with plenty of water and seek medical advise. If swallowed seek medical attention immediately- do not induce vomiting.

For further information refer to the Material Safety Data Sheet.

Fire

Formcoat GSR100 is nonflammable.

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- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

Note:

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