



Formrite

POLYMER-MODIFIED,
FAST-SETTING CEMENT
COMPOUND

FORMRITE SPECIFICATION



Project details

Project Name:

Project Address:

Specification Prepared For:

Specifier's Name:

Date:

Contact Us



Specialized Construction Products Ltd

Auckland Branch

79 Porana Rd, Glenfield

Ph: + 64 9 414 4499

Freephone: 0800 800 79

Christchurch Branch

178b Carlyle Rd, Sydenham

Ph: + 64 3 365 3202

Tauranga Branch

90a Maleme Street

Ph: + 64 7 541 3384

info@specialized.co.nz

www.specialized.co.nz

Introduction

Formrite is a polymer-modified, fast-setting cement based compound which has been specially formulated for the preparation and repair of a wide range of substrates where early strength and quick turn-around is required. This includes but is not limited to the repair of damaged concrete walls, ramps, coving, concrete floors, screeds and other surfaces that require patching and filling.

Formrite can be applied from 1.5 to 50mm in one application and once mixed with water will become a smooth, creamy mortar which can be easily applied using traditional techniques with either a steel trowel or broadknife.





POLYMER-MODIFIED, FAST-SETTING CEMENT COMPOUND

Properties

Application Temperature:
5°C - 30°C

Service Temperature Range:
-20°C to 60°C

Coverage:
Approximately 1.2m² per 1kg of dry powder @ 1mm thick

Thickness:
1.5mm to 50mm without the addition of aggregate

Working Time:
Approximately 45 minutes @ 20°C

Walkable:
Approximately 180mins @ 20°C

Ready for covering:
When it is dry or approximately 3 hours per 3mm thickness @ 20°C and @ 65% RH

Surface Preparation

All surfaces to receive an application of Formrite must be clean and free of debris, dirt and dust, efflorescence, grease, oils, curing agents, cleaning solutions, mould and algae or any other contaminants that may affect adhesion. Dense non-absorbent surfaces which could cause issues with long-term adhesion must be bond coated with Specialized Construction Products Pourite Primer or Tankit prior to application. All loose or damaged surface material must be removed by; water blasting, captive shot blasting, diamond grinding or mechanical wire brushing and then vacuumed prior to Formrite being applied. All cracks that may be the subject to ongoing movement must be correctly repaired and reinforced. Do not wet down surfaces before coating commences and do not apply Formrite to surfaces that are wet from rain or overnight dew.

Mixing Ratio

220-280mls of clean, cold potable water to every 1kg of Formrite powder.

Application

As Formrite is a fast-setting compound, don't mix more product than you can use in 45 minutes. Mix vigorously with a powered impeller mixer. Stir the compound until you have a lump free smooth paste and be aware that it is better to add a little water to a mix that is too thick for application than add additional powder to a thin mix. Always mix the powder into the water.

Installation

Apply a tight coat with a steel float and if necessary double back over the surface to give the final finish. Ensure enough pressure is applied to fill all surface defects and to feather edge the compound into the surrounding substrate. It is not necessary to leave a minimum thickness on the surface to ensure cohesive strength. Formrite will set to a walkable surface in approximately 3 hours dependent on weather conditions and thickness, but it will not achieve its full strength until it has completely dried. Be aware that very thick coatings may take some days to dry before impervious floor coverings can safely be laid.

Installation of Flooring

As soon as the Formrite can be walked on without damaging the surface (approximately 3 hours) floorcoverings such as carpet and ceramic tiles can be installed. Where glue or proprietary solvent based adhesives are required as part of the installation of the flooring covering always refer to the adhesive supplier for their recommended installation procedure before commencing.

Health & Safety

Avoid contact with eyes and prolonged contact with skin. Wash thoroughly after handling all wet or dry material. In case of eye contact, flush immediately with running water for at least 15 minutes. Consult a physician immediately. Do not take internally. The potential irritant nature of cement dust (in dry powder form or from subsequent cutting of the hardened product) is recognised. Paper dust masks or a respirator must be worn at all times when the product is being mixed. Be sure to provide adequate ventilation when working in enclosed areas. The wet compound is alkaline and prolonged skin contact should be avoided. People with sensitive skin must wear rubber gloves when handling the product. Materials Safety Data Sheets are available on request.

Cleaning

Cleaning may be accomplished with water immediately after use. Clean the whisk and the bucket between mixes and discard the cleaning water. Remove splatter or spills with water before the material sets.

Plaster Storage

In bagged form this product must be stored in a dry area, off the floor on a timber pallet or timber dunnage and it must be protected from the weather and from mechanical damage. Rotate the stock to ensure that the oldest material is used first. Plaster stock that is older than six months should be discarded.

Warranty

The recommendations, suggestions, statements and technical data provided by Specialized Construction Products are based on the best current knowledge available and are given for information purposes only without any responsibility for their use. It is expressly understood and agreed that the buyer's sole and exclusive remedy shall be the replacement of defective products, and under no circumstance, shall Specialized Construction Products be liable for incidental or consequential damages. Specialized Construction Products neither assumes, nor authorizes, any others to assume for it any liability with respect to furnishing of the product. Handling and use of the products are beyond the control of Specialized Construction Products; therefore, no warranty is made, expressed or implied, as to the results or on site quality that can be obtained from the use of the product.

Specialized Construction Products LTD guarantees this product is free from manufacturing defects and will perform to its specification for 10 years from the date of application if application occurs within the products stated shelf life.

Material Guarantee Period

15 years from date of practical completion to plastering.

Workmanship Guarantee Period

5 years from date of practical completion to plastering.

Technical Assistance

Assistance and information is available by calling Specialized Construction Products Ltd on **(09) 414 4499** or **0800 800 79** or by e-mail at **info@specialized.co.nz**.