

CONPELL R70

Rapid set, cement based concrete repair and ramping mortar

DESCRIPTION

CONPELL R70 is a rapid setting polymer modified, shrinkage compensated trowellable, cement based concrete repair mortar. CONPELL R70 is designed for use on horizontal and vertical surfaces and requires just the addition of water to produce a smooth trowellable mixture.

PRODUCT FEATURES & BENEFITS

- Shrinkage compensated
- Can be applied directly on to prepared concrete surface
- Excellent adhesion, when mixed correctly R70 reaches 42Mpa after 7 days.
- Accepts foot traffic in 90 minutes
- Pre-packaged, just add water
- Rapid curing
- Floor coverings can be applied in 120 minutes

TYPICAL APPLICATIONS

- Repairing existing and new damaged concrete floors
- Application thickness of feather edge to 70mm in 1 application
- General patching of concrete slabs
- As a heavy duty floor repair compound which provides a smooth surface allowing the installation of epoxy and polyurethane coatings. vinyl, ceramic tiles, terrazzo, carpet and timber floors
- Can be used in residential, light commercial and industrial application
- Building up ramp areas prior to the application of floor coverings

WATER REQUIREMENT PER 20KG BAG - 3.80 – 4.00 litres

PACKAGING

CONPELL R70 packaged in a 20kg polylined bag.

COVERAGE RATES

The approx coverage rates are obtained from a full 20kg bag of CONPELL R70 mixed with exactly 3.80 litres of clean water, will yield approx 14 litres, which will cover approx 14m² @ 1mm thick.

Thickness	Area m ² per 20 kg bag
5mm	2.80
10mm	1.40
20mm	0.70
25mm	0.56
40mm	0.35
50mm	0.28
70mm	0.20

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SURFACE PREPARATION

All concrete surfaces should be structurally sound and free of all contaminating material, including all previous coatings, adhesives, dirt, grease, oil, waxes, efflorescence or laitance by abrasive blasting, scarifying, mechanical grinding or other means.

PRIMING

For small, low porosity areas, thoroughly dampen the substrate prior to the application of CONPELL R70. For large repairs or ramping, prime the prepared concrete surfaces with CONPELL Envirogrip primer (strictly follow Envirogrip Technical data sheet dilution instructions) using a brush or soft broom. Allow the primer to reach a tacky consistency before applying CONPELL R70. Approx drying time of primer at 25°C with 50%RH is 15–30 minutes.

Apply CONPELL Envirogrip primer diluted 9 parts water to one part Envirogrip primer, extremely porous substrates may require 2 coats of primer. If a second coat is required, allow the first coat to dry prior to the application of the second coat. Apply primer at 8–10m² per litre. Do not allow dust or dirt particles on to the primed surface prior to the application of CONPELL R70, if this occurs re-priming is required.

Apply CONPELL R70 as soon as possible, once the primer has dried and becomes tacky or re-priming may be required.

Non-absorbent floors:

For application of CONPELL R70 to non-porous substrates, prime the surface using CONPELL HP primer. Contact CONPELL or follow instructions as outlined in relevant Technical Data Sheet when applying CONPELL HP primer.

MIXING

Add between 3.8 – 4.00 litres of clean water into the mixing container, whilst mixing add 20kg of CONPELL R70, add slowly to reduce the incidence of lumps. Mix using a force action, high shear stirrer with an electric drill at 600 r.p.m.

Gradually add the CONPELL R70 to the water whilst continuously mixing, when the entire contents of the bag have been added to the water, mix for a further 2 minutes to produce a smooth homogenous consistency.

**DO NOT MIX BY HAND DO
NOT USE EXCESS WATER**

All mixed material should be placed within working times, any hardened material should be discarded, do not attempt to re-mix. Further addition of water will NOT reconstitute a useable mixture.

PLACING

IMPORTANT NOTICE: CONPELL R70 has a very short working time, it is advisable to only mix up quantities that can be used within the working time of the product.

For Smoothing: Apply the mixed mortar using a trowel to the required thickness on to the prepared surface, smooth off using the trowel at a slightly inclined angle. A light splash of water across the surface prior to troweling will help in the smoothing process. CONPELL R70 can be lightly sanded once dry to remove any surface imperfections.

For Filling: Work the CONPELL R70 into the hole or crack ensuring the mixture comes into contact with the entire primed substrate, apply pressure to ensure the entire void has been filled. It is recommended to leave the repair proud of the hole or crack for about 20 minutes, then trim off the excess and finish off with a splash of water and a damp steel trowel. CONPELL underlayments can be applied once CONPELL R70 has dried.

CURING

No specific curing process is required, the addition of water to CONPELL R70 after it has stiffened is not recommended.

CLEAN UP

Clean all materials with water before material hardens.

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PRECAUTIONS

- This product is considered non-hazardous in normal usage. The presence of cement gives an alkaline mortar which may cause irritation to skin.
- Avoid contact with eyes and skin, where contact has been made with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective equipment.
- Do not use CONPELL R70 when the substrate is subject to permanent wetting or to hydro static pressure or rising damp.
- Do not apply CONPELL C70 to substrates that are chalky or dusting.
- Protect from direct sunlight or drying winds during application or for the first 12 hours after application.
- For large or thick sections of underlayment it is advisable to check the moisture content of the underlayment prior to the application of floor coverings.
- New concrete surfaces must be a minimum of 21 days old prior to the application of CONPELL R70.
- Check the substrate for moisture content prior to the application of CONPELL R70.
- Do not over water, Do not hand mix.
- Do not use in external applications.
- Not recommended as a finished floor coating or wearing surface.

SUBSTRATES

Concrete substrates that have moisture content greater than 5.5%, subject to rising damp or moisture require a moisture vapour barrier prior to the installation of CONPELL R70.

STORAGE

- Keep CONPELL R70 stored in a dry area, away from direct sunlight & frost.
- Store between 10°C & 30°C.
- CONPELL R70 has a shelf life of 6 -12 months in an unopened bag.

FIRE Product is non-flammable and poses no fire risk.

WARRANTIES

CONPELL offers warranties when their systems are applied by accredited applicators. Please contact manufacturer for further information.

SAFETY PRECAUTIONS

- Wear appropriate protective equipment, including clothing, gloves, appropriate respiratory mask and goggles.
- If poisoning occurs, contact doctor or Poisons Information Centre.
- If contact with skin occurs, remove contaminated clothing and thoroughly wash skin.
- If swallowed do not induce vomiting, give a glass of water.
- If in eyes, hold eyes open and flood with water for at least 15 minutes then see doctor immediately.
- For further information refer to the relevant Material Safety Data Sheet.

IMPORTANT INFORMATION

The information and recommendations relating to CONPELL R70 are given based on current knowledge and experience. Due to variances in material substrates and site conditions no warranties implied by law or, fit to purpose of the product can be implied. We accept no responsibility for loss or injury due to the incorrect handling or improper use of the product, limiting the cost of our liability to the replacement product cost only. Always refer to current Product Technical Data Sheets.

CONPELL

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