CONSTRUCTION CHEMICALS

Level Floor Tuff

Self levelling flooring compound

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Description

A resin modified, fast setting cement based compound for use as a levelling compound and repair screed. Its smooth texture and high fluidity allow ease of placement, trowelling, feather edging and finish.

Uses

A high strength, hard wearing, chemical resistant, resin modified cement based floor levelling and repair compound for internal and external use. **Level Floor Tuff** performs like a sheet of steel levelling internal or external concrete floors in warehouses, driveways, parking lots, walkways, balconies etc. Can be fortified with **Elastabond** to improve durability.

Features

- Feather edge to 15mm thick
- 100MPa strength
- Water resistant - rapid set

Coverage (Approximately)

1.5 kg/m^2 per 1mm thickness.

Performance Data

	1 Day	7 Days	28 Days
Compression Strength (MPa)	56.1	84.4	100
Hardness	54 (Shore D)	65 (Shore D)	68 (Brinell)
Adhesion to Substrate	3 MPa		

Chemical Resistance Resistant to petroleum solvents (i.e. petrol - diesel) strong alkali and weak acids (i.e. pH4).

Surface Preparation

Surfaces must be firm and structurally sound, free from dirt, wax, oil, grease, paint, ponded water, laitance and all contaminants. Contaminated/ultra smooth floors will need to be mechanically abraded or dustless shot blasted to roughen and abrade the surface. When in doubt about the surface preparation or priming, a 1m^2 test area is recommended. A thorough repeated sweeping with a hard broom, followed by mopping with clean water to remove all contaminants is essential before priming.

Priming

Internal helicopter or steel trowelled finish concrete: Prime with **Super Prime** applied with a hard brush, working well into the surface.

External concrete, terrazzo, ceramic tile or non-porous surfaces: Prime with **Primax** applied with a hard broom or brush, working well into the surface.

Damp concrete /difficult to adhere to substrates: Apply **Epecrete** with a brush or roller to dampproof the floor and improve adhesion.

Mixing

Place 4.2 litres of drinkable water in a mixing container and gradually add 20kg of level floor using a slow speed drill. **DO NOT hand mix or add in excess of 4.2 litres of water as this causes lumps, cracking, product separation and leaves a yellow layer on the surface indicating over watering.** Mix for 1-2 minutes and place the product immediately – the levelling properties reduce in effectiveness after 10 minutes making levelling and finishing more difficult. Use the mixture within 15 minutes. Discard unused material after this time.

Level Floor Tuff can be applied feather edged to 15mm. Over 8mm add up to 30% dried washed sharp coarse sand or fine aggregate, depending on the thickness required.

Application

Pour the mixed levelling compound onto the prepared floor and spread with a levelling compound spreader or large metal trowel, keeping the trowel slightly inclined to obtain the desired thickness.

Spread the material to the desired thickness in one application. Use sufficient material to cover high points with 2-3mm thickness. The levelling compound smooths itself during the first 10 minutes. Apply when the temperature is 5-30°C, do not apply in direct sunlight as this can cause the surface to crack.

If required, an additional layer or finish coat over the aggregate mix can be applied after the surface is primed with **Primax** but the layer should not exceed 50% of the previous layer.

The levelling compound can be walked on in 2-4 hours and put into use the next day, (12 hours @ 20°C @ 50% relative humidity).

Surface Moisture

When adhering floor coverings, check surface moisture with a moisture meter if in doubt about moisture content.

Curing

Normally curing is not necessary but when applying thin coats (under 3mm) in direct sunlight, warm temperatures and low humidity, keep the surface moist or covered with plastic for 24 hours after the surface can be walked on.

Safety Precautions

Non-toxic but contains cement which contains silica. Wear gloves and appropriate respirator. For further information refer to Material Safety Data Sheet.
Refer; www.constructionchemicals.com.au

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The information contained in this technical publication is based on our current knowledge and experience and is provided as a guide only. In view of the many factors that may affect application it is the user's sole responsibility to ensure suitability for a specific purpose.