

MAKLEVEL BULK OUT

Fast Setting, High Build, Floor-Levelling Compound for Flooring Underlay

Maklevel Bulk Out is a specially formulated floor leveling compound designed to achieve a high build flat surface for application of carpet and tiles.

Maklevel Bulk Out is designed to be applied in thick applications and achieve a stable crack free surface.

Maklevel Bulk Out can be applied from 2mm to 200mm thickness in a single application.

RECOMMENDED USES

- As a high build economical underlayment for carpet and tiles
- Reinstatement of uneven concrete slabs/floors
- Levelling defective concrete that does not meet requirements of after trades such as tiles and carpet
- Rapid repairs with minimal down time
- Use in commercial, domestic and light industrial applications
- Superior underlay for vinyl and timber floor coverings
- Residential, commercial and industrial applications
- Light industrial traffic
- Wet areas (not immersed)
- With under subfloor heating

FEATURES AND BENEFITS

- Rapid curing accepts foot traffic in 2-3 hours
- Ready to use – Simply add water and mix
- Large areas can be reinstated in relatively short time periods
- Eliminates need for sand/cement screed

- Can be applied from 2mm – 200mm in a single application
- Can be topped with **Maklevel SL**, **Maklevel Ultra** and **Maklevel HD** to achieve a smooth surface to accept timber, vinyl, carpet, tiles and epoxy/urethane coatings
- Large area can be applied with no cracking or delamination
- Floor coverings can be applied 24 hours after application
- Can be pumped
- Easy to apply
- Economical reinstatement of uneven concrete floors
- Australian Made and Australian Owned

APPLICATION INSTRUCTIONS

All surfaces must be clean and free from grease, oil, paints, sealers, curing compounds, dust or any material that will affect the bonding capabilities of the leveling compound.

Foreign material such as bitumen, adhesive or coatings such as epoxy must be removed via mechanical means such as scabbing, captive shot blasting or grinding followed by vacuuming to remove dust and dislodged material.

Do not use solvents or acid etching to clean the subfloor.

All substrates must be primed with **Makprime MP**. Ensure concrete slabs are at least 14 days old prior to application of **Maklevel Bulk Out**.

The minimum subfloor temperature before application should be 5°C.

SUBSTRATE PRIMING

Prior to carrying out the application the substrate must be primed with **Makprime MP**. For concrete substrates that contain greater than 5.5% moisture content or are subject to greater than 70% relative humidity, rising damp or moisture, it is recommended that

Makrete Moisture Barrier be applied as a vapour barrier. Refer to the **Makrete Moisture Barrier** Technical Data Sheet.

Floors treated with Makrete Moisture Barrier should be treated as a non-porous surface and primed with **Makprime MP**.

POROUS FLOORS

Depending on the porosity of the substrate, **Makrete Makprime MP** can be used neat or can be diluted in a 3:1 ratio (3 parts of water to 1 part concentrate).

Apply **Makrete Makprime MP** to the prepared substrate using a brush, broom or roller in accordance with the relevant Technical Data Sheet.

Allow primer to reach a tacky consistency. Approximate drying times for the tackiness is 40-60 minutes at 50% RH and 25°C.

Extremely porous substrates such as weather damaged slabs, aerated lightweight concrete etc. may require a second coat of primer to avoid pinholes or bubbles in the levelling compound. If a second coat is required:

- Allow the first coat to dry prior to application of second coat.
- Apply second coat of primer ensuring any ponded primer is brushed out to allow for even drying. Ensure tackiness is reached prior to application of **Maklevel Bulk Out**.

NON-POROUS FLOORS

Makrete **Makprime MP** (undiluted – neat). It provides high strength film over impervious surfaces that will allow bonding of levelling compounds.

- Apply **Makprime MP** to the prepared substrate using a brush, broom or roller in accordance with the Technical Data Sheet.
- Allow the primer to dry. Approximate drying time is 1-2 hours at 50% RH and 25°C.

CONCRETE SURFACES WITH HIGH MOISTURE CONTENT

For concrete surfaces that contain a moisture content of greater than 5% moisture or relative humidity greater than 75% or surfaces subject to rising damp or moisture due to hydrostatic pressure, it is recommended that **Makprime MP** be used prior to the application of **Maklevel Bulk Out**.

A minimum of two coats of **Maklevel Bulk Out** must be used. Allow the first coat of **Maklevel Bulk Out** to cure before applying the second coat. Refer to Technical Data Sheet for **Maklevel Bulk Out** prior to application.

MIXING

Maklevel Bulk Out requires 2.9 – 3.1 litres of potable water per 20 kg bag and is best mixed with a forced action, high shear stirrer, powered by a heavy-duty electric mixing drill at approx. 600 r.p.m.

Add pre-measured water to a clean mixing bucket. Gradually add **Maklevel Bulk Out** into the water whilst continuously mixing the contents of the bucket.

When the entire contents of the bag have been added to the water, mix for a further 2-3 minutes to produce a smooth homogenous and fluid consistency.

CAUTION DO NOT MIX BY HAND DO NOT ADD EXCESS WATER

Discard any hardened or stiffened compound that has formed in the mixing bucket. Further addition of water will **NOT** reconstitute a useable mixture.

APPLICATION

Apply **Maklevel Bulk Out** in one coat from 2mm to 200mm. Apply the mix to the primed area using a gauge rake, stand up spreader at the required height adjustment, or trowel on a

slight incline to obtain the thickness required. Installations can also be pumped using an appropriate mixing pump. The mixed quantity must be used within 15 minutes at a temperature of 20°C.

Maklevel Bulk Out will develop a smooth finish and even surface quickly due to its self-levelling properties.

Apply **Maklevel Bulk Out** at a coverage rate of 2.4 m² per 20kg bag at 5mm thickness.

SETTING TIMES

Maklevel Bulk Out accepts foot traffic in 2-3 hours. Floor coverings can be applied 24 hours after application.

CLEAN UP

Maklevel Bulk Out should be removed from tools and equipment with clean water immediately after use.

Do not pour **Maklevel Bulk Out** down drains as the product will cause blockages. Pour any

leftover mix into an empty **Maklevel Bulk Out** bag and discard once **Maklevel Bulk Out** has set.

PACKAGING

Maklevel Bulk Out is supplied in 20kg poly lined bag.

SHELF LIFE

Maklevel Bulk Out has a shelf life of 12 months in unopened bags. Must be stored in a cool dry elevated place and in a dry area.

HEALTH AND SAFETY INFORMATION

Wear mask to avoid breathing in dust. Use in well-ventilated areas. Avoid contact with skin and eyes. Wear appropriate eye and hand protection. Wear suitable protective clothing. Wash clothes before reuse. Do not eat, drink, or smoke while using this product. Please refer to full Safety Data Sheet for this product, which is available from **Makrete Building Solutions**.

TECHNICAL SPECIFICATIONS - PERFORMANCE CHARACTERISTICS

TEST	TYPICAL PROPERTIES (RESULTS) MPa				
Appearance	Powder				
Colour	Grey				
Compressive Strength MPa		1 Day	3 Days	7 Days	28 Days
		7-10 MPa	15-20 MPa	20-25 MPa	≥ 35 MPa
Tensile Adhesion Strength	1 Day 28 Days	≥ 2 MPa ≥ 4 MPa			
Setting Time	Initial Set	Final Set	Reflow Time	Ready for foot traffic	Ready for floor covering
	1.5 – 2hrs	2-3 hrs	10-15 mins	2-3 hrs	6-8 hrs
Fresh Wet Density	Approx. 2.10 kg/m ³ - (tested in accordance with AS1012.5)				
Application Thickness					
Minimum Thickness	2 mm				
Maximum Thickness	200 mm				
Temperature	Working Time				
10°C	50-60 min				
20°C	30-40 min				
30°C	20-30 min				
Application Temperature					
Minimum	5°C				
Maximum	35°C				
Water Requirement per 20kg Bag	2.9 – 3.1 Litres				
Flexural Strength MPa	1 Day 3 Days 7 Days 28 Days	>3 MPa >5 MPa >6 MPa >7 MPa			

CONTACT & TECHNICAL SUPPORT

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Product	MAKLEVEL BULK OUT
Issue Date	MAY 2023
Issue No:	1
Item Code	MAKL15
Pack Size	20 kg Bag

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time.

The TDS should be carefully read and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied.

Our responsibility for products sold is subject to our standard terms and conditions of sale. Makrete does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

The information and any recommendations relating to the application and end-use of all MAKRETE products are provided in good faith based on MAKRETE's knowledge and experience of the products. In applications, the differences in materials, and variances of substrates and actual site conditions can vary such that no warranty in respect of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be taken as inferred either from this information, or from any written recommendations, or from any other advice offered by MAKRETE. The proprietary rights of third parties must be observed. All orders are accepted subject to our sale terms and conditions.

It is recommended that all products be properly stored, handled and applied in accordance with the printed literature (TDS).

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.