

## TECHNICAL DATA SHEET

# MEGA SCREED

## High performance engineered screed

Mega Screed is an internal and external engineered screed specially formulated for the preparation of concrete floors prior to the laying of floor coverings such as timber, vinyl and tiling. What makes Mega Screed so unique are the specially selected cements and polymers that produce a fast setting underlayment with exceptional adhesion to most flooring materials and the ability to be used internally or externally.

### KEY FEATURES

- High performance
- Internal and External Use
- Shrinkage Compensated
- Bonded and Unbonded Screeds up to 60mm
- Fast setting with specifically selected cements and polymers
- Walk on in 3 Hours
- Superior Adhesion to Concrete Surfaces
- Pumpable
- Suitable for Timber, Vinyl and Tiling Installations

Suitable for commercial installations requiring minimum downtime and rapid turnaround.

Low VOC content- meets Green Building Council of Australia Green Star IEQ-13 requirements.



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### CHARACTERISTICS

Mega Screed is an internal and external engineered screed, specifically formulated for preparation of concrete sub-floors prior to the laying of floor coverings like timber, vinyl and tiling. When mixed with aggregate, the specially selected cements and polymers contained in Mega Screed produces a fast setting underlayment with exceptional adhesion to concrete and existing screeds. It is also suitable for the repair of existing damaged screeds or concrete floors. Mega Screed can be lightly walked on after 3 hours and is cured after 24 hours.

### PREPARATION

Ensure all concrete slabs are allowed to cure for at least 28 days and must be free of oil, paint, grease, wax, curing compounds, dust, old adhesive and any other contaminations, which may inhibit bond. Diamond grinding, shot blasting or scarifying is the preferred method of preparation for large areas to remove any contamination. Concrete floors need to be completely dry and must not be subject to rising damp. Concrete slabs subject to rising damp must be treated with Novatex Hydroprime prior to application. Where temperatures less than 5°C or greater than 35°C, contact your nearest Novatex office of any additional advice.

### MIXING

The mixing ratio of Mega Screed is 20 kg of Mega Screed powder with 80 kg of dry 0-8mm graded aggregate (not gravel). Mix dry ingredients in a cement mixer and then add 6-8 Litres of water and mix for a further 3-4 minutes. Note- Do not over water as this will promote bleed and separation with a reduction in bond, tensile and compressive strength. Mega Screed is fast setting. Do not mix longer than 4 minutes and place Mega Screed as quickly as possible and within 20 minutes. Pot life may be reduced in warmer temperatures.

### APPLICATION

#### Bonded Screed – 10 to 35mm thick

Prepare surface by making a slurry of Mega Screed and Novamix Additive. Mix 10 litres of water with a 20 kg bag of Mega Screed (add powder slowly) using a tile glue mixer and mix to a smooth consistency. Then add 10 litres of Novamix Additive until a smooth slurry is achieved. Apply the slurry to the floor using a brush or long knap paint roller to produce a 0.5 -1.0mm film over the substrate. While the slurry dries for a few minutes, Mix up Mega Screed per instructions. Pour Mega Screed onto the slurry before it dries. Use a levelling rake to produce the correct depth. Pour and level in 10 – 20 minutes and then compact, tamp and finish the screed with the appropriate trowel. Then Leave the Mega Screed to dry. If more than one coat is needed, allow to dry for at least 3 hours and then prime and repeat application. Maximum thickness applied in any one application for bonded screeds is 35mm. Mega Screed has a working time of approximately 20 – 30 minutes. Do not attempt to rework material after 20 minutes. Not to be used in immersed situations like swimming pools/spas etc. Once the Mega Screed has dried for 24 hours For Vinyl and Timber, apply a levelling compound like Novatex LevelR Leveller to smooth and finish the surface if necessary.

#### Unbonded Screeds – 35 to 60mm

Lay a polyethylene sheet on the concrete surface to act as a bond breaker. Mix up Mega Screed per instructions. Apply an anti-fracture material around the perimeter and around any vertical elements. Pour Mega Screed onto the sheet. Use a levelling rake to produce the correct depth. Pour and level in 10 – 20 minutes and then compact, tamp and finish the screed with the appropriate trowel. Then Leave the Mega Screed to dry. If more than one coat is needed, allow to dry for at least 3 hours and then prime and repeat application as per “Bonded Screed”. Maximum thickness applied in any one application for bonded screeds is 60mm.

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Once the Mega Screed has dried for 24 hours. For Vinyl and timber, apply a levelling compound like Novatex LevelR Leveller to smooth and finish the surface if necessary.

### COVERAGE

A 20kg bag mixed with 80kg of gravel will cover approximately 2.4m<sup>2</sup> @ 50 mm thick depending on texture of substrate.

### PACKAGING

Mega Screed 20kg paper bags

### SHELF LIFE

A bag of Mega Screed, when stored in a cool, dry environment and stored above ground level will have a shelf life of 12 months.

### CLEAN UP

Clean all equipment with water immediately after use, and before LevelR sets.

### PRECAUTIONS

Mega Screed bonded screed is not suitable for use over painted surfaces. Use unbonded screed instructions. Do not apply in temperatures below 5°C or above 35°C or in extreme conditions such as high wind, direct sunlight, rain and water runoff. Do not apply if overnight temperatures will fall below 5°C. Do not apply over substrates that have been exposed to heavy prolonged rain.

Do not screed over expansion joints or damp courses. Do not screed below ground level or constantly damp surfaces. Expansion joints must be brought through the screed. If screeding the floor in more than one application or if screeding will stop for longer than one hour, cut a vertical line in the screed and insert starter bars for the next pour. These should be 3-6mm steel rod between 200 and 300mm in length. For applications or situations not mentioned in this data sheet please contact Novatex Products Pty Ltd. Data Sheets and Safety Data Sheets are available at [www.novatexproducts.com.au](http://www.novatexproducts.com.au). Hazardous, contains cement silica. Wear gloves and mask when handling. Wash hands thoroughly after use. Material safety data sheets are available upon request.

### MANUAL HANDLING

Manual handling of this bag without due care and attention may result in personal injury.

### TECHNICAL DATA

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Flow / work time          | 20 - 30 minutes @ 20°C                                     |
| Initial Set Times         | 2 - 3 hours @ 20°C                                         |
| Ready for floor coverings | 24 hrs @ 20°C                                              |
| Compressive Strength      | 1 day - 6.9 MPa<br>7 days - 22.8 MPa<br>28 days - 39.8 MPa |
| Thickness                 | 10 - 35mm (bonded),<br>35 – 60mm (unbonded)                |

Disclaimer: Please note: Recommendations and advice regarding the use of this product are to be taken as a guide only. Novatex shall not be liable for any inaccuracy in the information given or for any loss, injury or damage whatsoever resulting from its use. To the full extent permitted by law, Novatex Products liability is limited to its discretion, to replacement of goods or the supply of equivalent goods. For applications/ situations not mentioned on this packaging, please contact your nearest Novatex office. The information supplied is to the best of our knowledge true and accurate. The actual application of the product is beyond the manufacturer's control. Any failure or damage caused by the incorrect usage of the product is not the responsibility of the manufacturer. The manufacturer insists that all workmanship must be carried out in accordance with the manufacturer's specification. To the full extent permitted by law, Novatex Products Pty Ltd liability is limited to its discretion, to replacement of good or the supply of equivalent goods.

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