

## ROCKGRIP BONDING LIQUID

### TECHNICAL DATA SHEET

Version 3 – 2019 APRIL

THIS ISSUE SUPERSEDES ALL PREVIOUS PUBLICATIONS

### PRODUCT DESCRIPTION

A clear bonding liquid for interior and exterior porous surfaces

### PRODUCT USES

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- Recommended as a penetrating primer or sealer for new dry interior and exterior porous surfaces such as gypsum plaster, brick, concrete, cement, “Masonite” hardboard (interior only) and various other types of composite boarding. Normally used when top coated with filler coats and Eggshell or Gloss Enamel paints.
- Suitable as a bonding liquid for penetrating and binding unsound previously painted substrate.

### FEATURES AND BENEFITS

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- For interior and exterior use. One product convenience.
- Contains high quality resin. The best possible penetration and bonding of powdery surfaces.
- Provides adhesion to gypsum plaster for decorative solvent and water based topcoats.

### PRODUCT INFORMATION

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<b>Appearance</b>	Matt to Semi-Gloss
<b>Colour</b>	Clear
<b>Density at 23°C</b>	Approx. 0.80
<b>Solids Content</b>	By weight: Approx. 16% By volume: Approx. 13%
<b>Packaged Viscosity</b>	Viscosity at 23°C: Approx. 15 seconds F4
<b>Spreading Rate</b>	Approx. 12m <sup>2</sup> per litre depending on surface porosity, profile and application method
<b>Recommended DFT per coat</b>	Penetrates substrate
<b>Flash Point</b>	37°C

## ROCKGRIP BONDING LIQUID

### APPLICATION INFORMATION

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Mixing	Stir until homogeneous with a flat paddle
Application Surface conditions	Surface Temperature between 10 - 35°C Relative Humidity between 10 - 85 % OR 2°C above dew point minimum.
Application methods	Brush or roller preferred to ensure the product is worked well into the surface.
Thinner	Thinning not recommended. Ready for use after thorough stirring for brush and roller applications.  For very absorbent surfaces such as lime wash, thin the 1 <sup>st</sup> coat up to 20% with Mineral Turpentine followed with full coat until the surface is suitably bound.
Drying Time	Surface dry 2 hours at 23°C.
Recoating Time	4 hours at 23°C maximum (Drying times will be extended during cold, wet or humid conditions)
Cleaning of equipment	After use, remove as much product as possible, and then clean immediately with <b>Dulux Pre-Paint Brush Cleaner/ Degreaser</b> or Mineral Turpentine.
Substrates	Suitable for cement plaster, gypsum plaster, concrete, porous cement brick, fibre cement, cement roof tiles and composite boarding.
Precautions:	Do not apply during cold (below 10°C) or wet weather. Not suitable as a primer on non-porous surfaces. Surfaces must be completely dry before applying this material. If the application produces, glossy lightly sand to a matt finish. Not designed to withstand natural weathering. It should be over coated within 48 hours.
Coats Required	New work 1 coat, a 2 <sup>nd</sup> coat may be required on very absorbent surfaces such as gypsum plaster or lime wash.
Top Coating	Can be over coated with most <b>Rockgrip</b> decorative finishes.

### SURFACE PREPARATION

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Plaster sand should comply with SABS 1090 requirements. Plaster mix must be applied at a minimum thickness of 10mm, curing to a hard and sound finish, free of soft and friable material. MPA strength must comply with SABS 0164-1 (10MPa=2, 6:1 and 5MPa=4:1). Ensure that surfaces are sound and free from dust, oil, grease, dirt, and debris. Remove whatever powdery residues that can be brushed off with a stiff brush. Surfaces must be thoroughly dry - no more than 12% moisture content.

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### SURFACE PREPARATION

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#### NEW SURFACES

##### **Cement plaster, Concrete, Porous Cement Brick, Fibre Cement and Composite boards**

- It is recommended that fresh plaster should be allowed one week drying for every 5mm thickness; and longer in cold or damp weather.
- Spot-prime metal strips and nail heads with **Rockgrip Steel Primer**.
- Apply a single coat **Rockgrip Bonding Liquid**

##### **Gypsum Plaster - Interior**

- Newly applied Gypsum Plaster can present variable surface finishes based on the application method, the quality and type of gypsum plaster used. This can present variability in the finish of the applied gypsum in terms of surface hardness, texture and porosity. This may require added attention during priming.
- Ensure the gypsum plaster is sound, non-friable, applied and cured as per the manufacturer's specifications.
- After wiping down the gypsum plaster, no chalky powder should remain on the surface.
- If the gypsum is sound, apply a single coat **Rockgrip Bonding Liquid**.
- As gypsum plaster is a very porous surface, adsorption of the bonding liquid may occur. To test for this, wipe a black cloth over the dried **Rockgrip Bonding Liquid** to test its integrity. If a white residue is found on the back of the cloth, apply 1 to 2 further coats of **Rockgrip Bonding Liquid** to achieve the correct binding and sealing properties.

##### **Cement and Fibre Cement Roof Tiles (new)**

- To remove dust, debris and chalky residue, wash the entire roof area using high-pressure washing, using a rotating nozzle at a pressure between 150 and 200 bar. Alternatively, scrub the entire roof area with a bristle brush, using water from a garden hose and allow drying.
- For sound cement roof tiles; prime with one coat **Rockgrip Acrylic Roof**, thinned up to 10% with water to aid absorption followed by 2 undiluted coats of **Rockgrip Acrylic Roof**.
- For very porous/slightly friable/chalky cement tiles and all fibre cement tiles; prime with **Rockgrip Bonding Liquid** and overcoat within 48 hours with 2 coats **Rockgrip Acrylic Roof**.

##### **Cement and Fibre Cement Roof Tiles (weathered, unpainted)**

- To remove dust, debris and chalky residue from cement roof tiles, wash the entire roof area using high-pressure washing, using a rotating nozzle at a pressure between 150 and 200 bar. Alternatively, scrub the entire roof area with a bristle brush, using water from a garden hose.
- Old, weathered fibre cement is porous and may encourage the growth of fungus. Scrub these areas with either of the following solutions: 25% chlorine solution and water or

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### SURFACE PREPARATION

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#### NEW SURFACES

##### **Cement and Fibre Cement Roof Tiles (weathered, unpainted) - Continue**

25% sodium hypochlorite and water solution. Rinse off thoroughly, removing residues of the cleaning solution, and at the same time cleaning off dust and debris from the roof.

- For sound cement roof tiles; prime with one coat **Rockgrip Acrylic Roof**, thinned up to 10% with water to aid absorption followed by 2 undiluted coats of **Rockgrip Acrylic Roof**.
- For very porous/slightly friable/chalky cement tiles and all fibre cement tiles; prime with **Rockgrip Bonding Liquid** and overcoat within 48 hours with 2 coats **Rockgrip Acrylic Roof**.

##### **Cement and Fibre Cement Roof Tiles (weathered, unpainted) - continue**

- Waterproofing. Where required apply at least three coats **Dulux Rainshield** over the primer coat, recommended minimum waterproofing dry film thickness of 1000µm. Overcoat with 2 coats **Rockgrip Acrylic Roof**.

#### PREVIOUSLY PAINTED SURFACES

##### **Old Paint in Poor Condition**

- Remove all loose and flaking paint.
- Friable and porous surfaces must be removed and repaired.
- Mould instructions. To kill lichen and algae growth, scrub with one of the following solutions: either 4:1 water/chlorine, or 4:1 water/sodium hypochlorite. Ensure that the areas are completely saturated, and allow the solution to react for a minimum of 4 hours. Rinse the complete wall surface thoroughly with clean water.
- Chalked, powdery surfaces must be thoroughly brushed or washed down. Allow surfaces to dry out thoroughly.

##### **Lime Washed and Distempred Surfaces**

- Surfaces must be thoroughly wire-brushed, scraped and sanded to remove all lime wash, i.e. until the underlying plaster or brickwork is visible, known as the "grey state".
- Remove distemper with hot water and scraping. Wash surfaces thoroughly with **Dulux Pre-Paint Sugar Soap** solution and rinse with clean water. Allow surfaces to dry out thoroughly.
- Apply a single coat **Rockgrip Bonding Liquid**. Lime-washed and Distempred surfaces may require two coats. For very absorbent surfaces such as lime wash, two coats may be required. The first coat must be thinned 20% with Mineral Turpentine for penetration.

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### SURFACE PREPARATION

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#### PREVIOUSLY PAINTED SURFACES

##### Cement and Fibre Cement Roof Tiles

- Perform adhesion tests on the existing coating to cross cut test ISO 2409-2013 standards
- To remove dust, debris and chalky residue and loose paint from cement roof tiles, wash the entire roof area using high-pressure washing, using a rotating nozzle at a pressure between 150 and 200 bar. Alternatively, scrub the entire roof area with a bristle brush, using water from a garden hose. Cement and Fibre Cement Roof Tiles in poor condition, strip completely.
- Old, weathered fibre cement is porous and may encourage the growth of fungus. Scrub these areas with either of the following solutions: 25% chlorine solution and water or 25% sodium hypochlorite and water solution. Rinse off thoroughly, removing residues of the cleaning solution, and at the same time cleaning off dust and debris from the roof.
- For sound cement roof tiles; prime with one coat **Rockgrip Acrylic Roof**, thinned up to 10% with water to aid absorption followed by 2 undiluted coats of **Rockgrip Acrylic Roof**.
- For very porous/slightly friable/chalky cement tiles and all fibre cement tiles; prime with **Rockgrip Bonding Liquid** and overcoat within 48 hours with 2 coats **Rockgrip Acrylic Roof**.
- Waterproofing. Where required apply at least three coats **Dulux Rainshield** over the primer coat, recommended minimum waterproofing dry film thickness of 1000µm. Overcoat with 2 coats **Rockgrip Acrylic Roof**.

### FILLING

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Fill all imperfections with the appropriate **Dulux Pre-Paint** filler and spot prime filled areas with **Rockgrip Bonding Liquid** once the crack filler has dried properly. Failure to do this will result in uneven sheen levels between the repaired and normal areas.

### HEALTH AND SAFETY INFORMATION

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This product contains no added lead. Avoid contact with skin or eyes. Keep out of reach of children. If accidentally swallowed, seek medical advice immediately and show this container to the doctor.

Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding should be used wherever possible.

If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used. Do not empty into drains or watercourses.

Ensure good ventilation during application and drying. It is recommended to use suitable protective clothing and equipment. To avoid the risk of spillage, always store and transport containers in a secure upright position. Refer to Material Safety Data Sheet for complete information.

## ROCKGRIP BONDING LIQUID

### ADDITIONAL INFORMATION

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Packaging	5Lt
Storage Conditions	Store under cool dry conditions away from direct sunlight, heat and extreme cold.
Disclaimers	N/A product specific

### TDS STD DISCLAIMER

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The recommendations contained herein are given in good faith and meant to guide the specifier or user in accordance with good painting practices. They are gained from our tests and experiences and are believed to be accurate and reliable. No warranty/guarantee is implied by the recommendations contained herein since the conditions of use; application method, substrate and cleanliness of the substrate are beyond Dulux control.

Important Note; Technology may change with time, necessitating changes to this Technical Data Sheet (TDS).

It is the responsibility of the user to ensure that the latest TDS is being used for reference. Dulux Technical Data Sheets are available on our website [www.duluxtrade.co.za](http://www.duluxtrade.co.za) or please contact: Dulux On-Line on 0860 330 111. Email [ZA.Helpline@akzonobel.com](mailto:ZA.Helpline@akzonobel.com)

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