ECOTILE
Changing Perspective

ECO FRIENDLY

BONDING LIQUID:
IMPROVES ADHESIVE & GROUT PERFORMANCE, BOND STRENGTH, FLEXIBILITY, WATER RESISTANCE

BONDING LIQUID

DATA SHEETS

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1. TECHNICAL DATA SHEET

1.1 DESCRIPTION

BONDING LIQUID a ready-to-use polymer based primer and keying agent that has been specifically designed as a bonding agent for plaster mixes, damp resistance, cement and gypsum- based mortars. **BONDING LIQUID** has three functions - adhesion promoter, to bind any dustiness in the substrate, to prevent any air trapped in the substrate. **BONDING LIQUID** dries very fast when prepping the substrate and is typically ready for application in approximately twenty minutes. **BONDING LIQUID** contains no VOC's and is totally compliant with green building requirements.

1.2 APPLICATION

BONDING LIQUID - Improves surface adhesion and abrasion resistance. Shake product well before use. Dilute two parts Ecotile Bonding Liquid with one-part water and thoroughly mix. Apply with a block brush, thoroughly working product into all cracks and holes. This may increase on porous or rough surfaces. Allow 2 - 4 hours drying time. Clean brushes with a solvent based brush cleaner.

PLASTER ADDITIVE - Improves durability, adhesion properties and damp resistance. Shake product well before use. Dilute two parts Ecotile Bonding Liquid with one-part water and thoroughly mix. Mix cement and sand first. Diluted Ecotile Bonding Liquid can be added directly to grouts, tile adhesive, gypsum plasters and mortars. Pour directly into plaster mix as required. Mix to a lump free, uniform consistency and apply. Clean equipment with a solvent based brush cleaner.

1.3 MIXING

BONDING LIQUID should be shaken well before mixing.

1.4 COVERAGE

When used as a primer, BONDING LIQUID will cover between 4 and 5 m^2 per litre depending on the smoothness of the screed.

1.5 GENERAL
All data supplied is based on laboratory tests conducted at 20º C, and 50% Relative Humidity. On-site atmospheric conditions may require adaptation to suite circumstances.

1.6 WARNING
Do not ingest. Keep away from children and pets. Do not empty into a drain. Wear rubber gloves, and in the event of prolonged contamination, rinse thoroughly with cold water. Seek medical attention if irritation persists. Consult our Material Safety Data Sheet for more information.

1.7 IMPORTANT NOTICE
The information supplied in our literature or given by our employees is given in good faith.
We reserve the right to update this information at any time without prior notice. We guarantee the consistent high quality of our products, however, we have no control over the site conditions or execution of the work. We accept no liability for any loss or damage which may arise as a result thereof.

2. SPECIFICATIONS SHEET

2.1 COMPOSITION & FEATURES
BONDING LIQUID is manufactured from a acrylic based primer. **BONDING LIQUID** is water based and contains no organic volatiles (VOC's) and is therefore compliant with GBCSA's requirements. **BONDING LIQUID** is packed in 5 litre and 25 litre PVC containers. Specific Gravity: 1
Solids Content: can be made available on request.
BONDING LIQUID is hydrophobic and will not re-emulsify in the presence of moisture. Moisture will not have any detrimental effect on it, thereby ensuring its integrity and preventing subsequent damage. Once dried, BONDING LIQUID is resistant to most chemicals, including two part polyurethane adhesives, and will not be affected by being in contact with it.

2.2 USES
BONDING LIQUID is a multi-purpose concrete Primer and Sealer. It improves adhesion of substances such as adhesive to the concrete. It's binding properties are superior to older technology primers and bonding agents. This binding prevents the release of any dust or particles from the concrete substrate onto which it has been applied. **BONDING LIQUID** is used for mortar and concrete strengthening as a bonding agent.

2.3 MIXING & APPLICATION
BONDING LIQUID is pre-mixed and does not require mixing. It is best applied with a mohair roller or brush.

2.4 COVERAGE
When used as a primer or sealer, **BONDING LIQUID** will cover between 4 and 6 m^2 per litre depending the smoothness of the substrate.

2.5 GENERAL
All data supplied is based on laboratory tests conducted at 20º C, and 50% Relative Humidity. On-site atmospheric conditions may require adaptation to suite circumstances.

2.6 WARNING

Do not ingest. Keep away from children and pets. Wear rubber gloves, and in the event of prolonged contamination, rinse thoroughly with cold water. Seek medical attention if irritation persists. Consult our Material Safety Data Sheet for more information.

2. 7 IMPORTANT NOTICE

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3. MATERIAL SAFETY DATA

3.1 IDENTIFICATION OF THE SUB STANCE/PREPARATION AND COMPANY

Name of substance/preparation:
Commercial product name: **BONDING LIQUID**

USE OF SUBSTANCE / PREPARATION

Industrial/Commercial/Residential.
Used for: Primer for Plaster mixes, damp resistant, cement and gypsum mortars mix applications.
All other areas of application to be agreed with the Application Engineering/ Technical Marketing Department of the manufacturer.

COMPANY NAME

Manufacturer/distributor: **ECOCEM (Pty) Ltd**
Street: 275 Cowen Ntuli Street
State/postal code/city: Middelburg, 1050
Telephone: +27 71 360 9802
Information about the Safety Data Sheet: +27 11 360 9802
email: info@ecocem.co.za

3.2 HAZARDS IDENTIFICATION

HAZCHEM CODE: 2Z-NON HAZARDOUS

CLASSIFICATION

This product is not a dangerous preparation within the meaning of Directive (EC) NO 1272/2008 R-Phrase Description – Nil

LABELLING

Labelling (1272/2008/EC):
R-Phrase Description – Nil
S-Phrase Description – Nil

FURTHER HAZARDS TO HUMAN AND ENVIRONMENT:
The product does not have any further hazards

3.3 COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION
Mixture

DESCRIPTION:
Copolymer of acrylic acid ester +styrene (dispersion in water) EC-No.1272 CAS No.25767-47-9 Material Content%
Warning Label
9043-30-5Alpha-i-tridecyl-omega-hydr0xypolyglycolethe <3 Xn R22-41

3.4 FIRST-AID MEASURES

General information - Under ordinary workplace conditions no special measures required.

- **INHALATION OF VAPOUR:** No special measures required.
- **AFTER CONTACT WITH THE SKIN:** Wash with plenty of water and soap. In case of continuous irritation seek medical advice. Remove soiled clothing.
- **AFTER CONTACT WITH THE EYES:** Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.
- **AFTER SWALLOWING:** Seek immediate medical attention.

3.5 FIRE-FIGHTING MEASURES

THE PRODUCT IS AN AQUEOUS DISPERSION AND IS NOT COMBUSTIBLE. DRIED UP MATERIAL IS COMBUSTIBLE.

3.6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Wear personal protective equipment. Be aware of slippage.

ENVIRONMENTAL PRECAUTIONS
Do not allow to enter into sewer, drainage or potable water systems.

METHODS FOR CLEANING UP
Large spillages should be contained and pumped into a receiving vessel.
Small spillages should be absorbed on an inert absorbent (sand, sawdust, diatomite)

FURTHER INFORMATION:
Observe notes under section 7 with regards to safe handling Observe section 8 for information on personal protective equipment. For disposal methods refer to section 13.

3.7 HANDLING AND STORAGE

HANDLING
No special precautions needed with normal housekeeping. Spilled substance increases the risk of slipping

STORAGE

Conditions for storage rooms and vessels:

Protect from frost and direct sunlight.

3.8 EXPOSURE CONTROLS AND PERSONAL PROTECTION EQUIPMENT

EXPOSURE LIMITS

Not applicable

EXPOSURE CONTROLS

Do not eat or drink when handling.

Personal protection equipment

Respiratory protection: Not required

Hand protection: For frequent contact, wear impermeable gloves

Eye protection: Goggles, face visor or safety glasses is recommended.

Skin protection: Not required.

EXPOSURE TO THE ENVIRONMENT LIMITED AND CONTROLLED

PREVENT MATERIAL FROM ENTERING SURFACE WATERS AND SOIL.

3.9 PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION

Physical state / form: milky white liquid

Odour: slight

pH: 7.5—8.5

Boiling Point: Approx 100°C

Melting Approx 0°C

Flashpoint. Not Applicable

Flammability:

Auto-flammability:

Explosion Hazard:

Oxidising Properties: Vapour Pressure Approx 23 hPa at 20°C

Relative density: Approx 1.03gm/cm3 Solubility in water moderately soluble

Viscosity (dynamic): 6000—12000m Pa.s at 23°C (Brookfield, spindle 5/20 rpm)

3.10 STABILITY AND REACTIVITY

GENERAL INFORMATION:

The product is stable if stored and handled in accordance with standard industrial practices.

3.11 TOXICOLOGICAL INFORMATION

GENERAL INFORMATION:

Long term experience of this product type indicates no danger to health when properly handled under industrial conditions, and acute toxicity effects are not expected after a single oral exposure.

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3.13 ECOLOGICAL INFORMATION

ECOTOXICITY

The product is not classified as dangerous to the environment according to EC directive 93/21/EEC. Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition): According to current knowledge adverse effects on water purification plants are not expected.

3.14 DISPOSAL CONSIDERATIONS

MATERIAL

The product and waste water containing product should not be discharged directly into drains and waterways without treatment. The polymer content may be separated in a suitable coagulation and purification plant. Details available on request. Disposal of the product, solid waste and packaging should be in accordance with local, state or national legislation and undertaken by an authorized contractor.

3.15 TRANSPORT INFORMATION

The product is not classified as hazardous according to International Transport Regulations

REGULATORY INFORMATION

The product is not classified as Dangerous according to EC Directive 88/379/EEC (including subsequent amendments) and requires no special labelling.

3.17 OTHER INFORMATION

MATERIAL

This Material Safety Data Sheet conforms to EC Directive 91/155 EEC and 93/112EC. The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.

FURTHER INFORMATION:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

4. THEORETICAL (VOC) CONTENT

PRODUCT:

BONDING LIQUID

ABBREVIATIONS

S.G. = Specific Gravity g/ml = grams/millilitre g/l = grams/litre

FORMULAS

Sum of VOC's in Sealer/Primer formulation = VOC % VOC (g/l) = VOC % x S.G. x 10

- S.G. (G/ML) = 1.00G/ML
- VOC % = 0%
- VOC (G/L) = 0 X 1.00 X 10 = 0G/L

Maximum VOC content (Specified by Green Building Council of South Africa): 50g/l

5. WARRANTY

ECOTILE BONDING LIQUID is manufactured to comply with the required standards for use as a primer with self levelling screeds in respect of Flow promotion, substrate binding and preventing air bubbles from surfacing during setting.
This warranty is based on the substrate being sound, dry and free of contamination. All application is to be carried out in strict compliance with the application methodology in the data sheet as issued.
ECOTILE PRODUCTS further warrants that the products are manufactured to strict quality control standards and that the products supplied are free of defect. We cannot be held responsible for failure due to the substrate failing, or physical or excessive mechanical damage occurring to the applied product.