

Product Information

Technical Data Sheet – August 2024

Crommelin®

Waterproofing & Sealing



DiamondTough® Indoor & outdoor

Stone Shield

Premium protection for dense natural stone.

DESCRIPTION

Crommelin® DiamondTough® Stone Shield is a clear, premium waterborne surface sealer, engineered to deliver exceptional stain resistance and water repellence.

Crommelin® DiamondTough® Stone Shield is both a penetrating and film forming sealer, delivering maximum surface protection whilst maintaining substrate breathability.

Crommelin® DiamondTough® Stone Shield also contains an anti-microbial additive that inhibits the growth of mould and algae.

FEATURES AND BENEFITS

- Premium, dense natural stone protection.
- Superior stain resistance.
- Natural to low sheen finish.
- High abrasion resistance.
- Highly water repellent.
- Fast drying and rapid re-coat time.
- Water based, low odour & low VOC.
- Vertical & horizontal application.
- Interior & exterior application.

AREAS OF USE

DiamondTough® Stone Shield is suitable for use in the following areas:

• Dense Stone Floor & Wall Tiles.	• Stone & Concrete Bench Tops.
• Natural Stone Cladding.	• Kitchens & Living Rooms.
• Polished Concrete Floors.	• Patios & Entertainment Areas.

7 Day Technical Support 1800 655 711

72 Division Street, Welshpool Western Australia 6106 T +61 8 9458 5711 F +61 8 9451 4749
service@crommelin.com.au www.crommelin.com.au

Page 1 of 4

SUITABLE SUBSTRATES

DiamondTough® Stone Shield is suitable for use on the following surfaces:

- Travertine & Porcelain.
- Polished Concrete.
- Terracotta
- Reconstituted Stone.
- Granite, Marble and Bluestone.
- Natural Quarry Stones.

APPLICATION TOOLS

- Crommelin® Contractor Membrane Applicator Brush – 100mm, 75mm.
- Crommelin® Contractor Membrane Roller Cover – 230mm.
- Lambswool applicator.
- Lint-free cloth.
- Airless spray.

SURFACE PREPARATION

Full surface preparation instructions can be found at www.crommelin.com.au/full-instructions/

Surfaces must be clean, sound and free from dust, grease, curing compounds, release agents, loose particles, efflorescence, concrete laitance or any other contaminants. Use Crommelin® DiamondTough® Clean N Prep to remove grease, oils etc

- **All surfaces to be coated must be sound.** Any areas of loose or friable substrate must be removed and repaired by a suitable repair mortar.
- If acid etching has taken place, ensure neutralisation of the area and thorough rinsing has been conducted.
- **All surfaces to be coated must be dry.** A moisture test is required 100% of the time to ascertain if the substrate is dry enough to coat. Electronic moisture meters are recommended, however a simple test may be performed as per below.

Simple Moisture Test: Place a 300mm x 300mm piece of black plastic or rubber mat on the area to be coated at the hottest part of the day. After 2 hours, remove and inspect. If any condensation is present on the underside of the plastic, or the substrate has darkened, then it is too wet to coat. Be patient, allow to dry further and repeat test until no moisture is detected.

- If area has been previously sealed, ensure coating compatibility. If in doubt, remove existing coating.
- Ensure any areas where coating is not required are suitably protected with plastic drop sheets or similar.

PRODUCT PREPARATION

- **DiamondTough® Stone Shield** is ready to use, simply stir well prior to application.

APPLICATION CONDITIONS

- Do not apply if surface/ambient temperatures are too high or too low. Recommended application temperature range 5°C - 35°C.
- Do not apply if humidity is too high, or likely to be during the initial cure phase. Maximum recommended humidity during application and cure is 85%.
- Do not apply if rain is expected within 72 hours, weather details may be checked at <http://www.bom.gov.au>.

APPLICATION PROCESS

Full application instructions can be found at www.crommelin.com.au/full-instructions/

- Apply a trial patch before full application, to assess sealer adhesion, substrate colour enhancement, final finish and slip resistance.
- Ensure that all application tools are clean and lint free.
- Apply the first coat of **DiamondTough® Stone Shield** in an even and consistent manner so the surface is wet but no visible white excess liquid remains.
- Ensure the second coat is applied as soon as the first coat is touch dry, and within 2 hours.
- Apply the second coat in the same manner as the first.
- Once dry, any remaining visible streaky film build up on highly dense surfaces such as polished marble, should be washed with warm soapy water, rinsed and buffed with soft cloth.
- Very dense surfaces will only require **DiamondTough® Stone Shield** to be wiped on. Correct application rate will be confirmed by a test patch.

RE-COAT/CURE TIME

- Recoat time: 2-4 hours.
- Light foot traffic: 24 hours.
- Full cure: 7 days.

COVERAGE

- 10m²-30m² per litre.

CLEAN UP

- Clean all equipment with warm water and a small amount of detergent immediately after use.

SIZES

DiamondTough® Stone Shield is available in 1L and 3L pails.

- 1L will produce approximately 5m² to 15m² of finished coating.
- 3L will produce approximately 15m² to 45m² of finished coating.

RELATED PRODUCTS

- Crommelin® Moisture Meter.
- Crommelin® Contractor Membrane Applicator Brush – 100mm, 75mm.
- Crommelin® Contractor Membrane Roller Cover – 230mm.
- Crommelin® DiamondTough® Clean N Prep.

MAINTENANCE AND REPAIR

- Protect **DiamondTough® Stone Shield** from harsh chemicals, abrasion and other potentially damaging conditions.
- The use of door mats is recommended at all entry points.
- Regular cleaning of the coated surface to remove abrasive contaminants is recommended.
- Areas of wear or damage may be repaired by ensuring that the area is dry and clean, and reapplying sealer to the affected areas at the recommended coverage rates.

PRECAUTIONS

- Ensure substrate is completely dry before application.
- Ensure adequate surface preparation is carried out to allow even application.
- Ensure a trial patch is applied to ensure suitability, required slip resistance and desired result is achieved.
- Ensure any existing coatings are compatible or removed prior to application.
- Do not apply during periods of extreme weather conditions – temperature or humidity. Apply between 5°C and 35°C and less than 85% humidity. To check these conditions, refer to <http://www.bom.gov.au>

TRANSPORT AND STORAGE

• Size: 1L, 3L	• Weight: 1kg, 3kg	• Cool and Dry Storage	• UN Number: N/A
• DG Class: N/A	• Flash Point: N/A	• Hazchem Code: N/A	• Poisons Schedule: N/A

SAFETY AND FIRST AID

Crommelin® DiamondTough® Stone Shield Safety Data Sheet is available from Crommelin® upon request.

Safety

- Ensure good ventilation and avoid breathing vapours.
- Avoid skin and eye contact. Wear gloves and eye protection. Remove splashes on skin immediately and remove contaminated clothing.
- Keep out of reach of children.
- Keep container sealed when not in use.
- Do not swallow.

First Aid

- If poisoning occurs, contact a doctor or poisons information centre: Ph 13 11 26.
- If swallowed, do not induce vomiting. Give a glass of water to drink.
- If in eyes, hold eyes open and flood with water for at least 15 minutes.
- If not breathing, apply artificial respiration.

Crommelin® and other marks followed by ® are registered trademarks.

Any advice, recommendation, information, assistance or service provided by Crommelin® in relation to its products or their use is given in good faith, however is provided without responsibility or liability.

Customers need to undertake their own assessment to determine the suitability of a product for the intended use. As the performance of any product is subject to a wide variety of different surface types as well as environmental and surface-specific conditions, it is essential that a sample of the product be applied to the intended area of use to ensure it is acceptable in appearance and finish and that it performs as required on the specific surface.

Crommelin® also reserves the right to update information without prior notice, to reflect ongoing research and product development.

7 Day Technical Support 1800 655 711

72 Division Street, Welshpool Western Australia 6106 T +61 8 9458 5711 F +61 8 9451 4749
service@crommelin.com.au www.crommelin.com.au

Page 4 of 4