

DUROTILE™ PRO

HIGH-PERFORMANCE, ONE-COMPONENT C2SITE CEMENT-BASED TILE ADHESIVE



DESCRIPTION

DUROTILE™ PRO is a high-performance, one-component C2SITE cement-based tile adhesive. Suitable for ceramic, porcelain, slate, pavers, and natural stone. It is a white powder blend of cement, graded sand, polymers, and additives designed for high bond strength and extended coverage. Ideal for internal and external walls and floors.

FEATURES

- One component system, requires only the addition of clean water
- Extended open time
- High yield
- Quick and easy to apply
- Excellent adhesion to floor and wall substrates
- Residential Pools

CLASSIFICATION IN ACCORDANCE TO AS ISO 13007

DUROTILE™ PRO is a deformable, improved cement base adhesive with extended open time and no vertical slip, classified as C2TES1.

APPROXIMATE COVERAGE

(Based on product wet densities with a trowel at 45°)

- 7 - 8 m² with a 6 mm x 6 mm square notched trowel
- 4.5 - 5.5 m² with a 10 mm x 10 mm square notched trowel

Coverage will depend on how the trowel is used and surface regularity.

TECHNICAL INFORMATION

DRY PRODUCT

Form White powder

Bulk Density 1500 kg/m³

Mixing ratio/20kg bag 5 – 5.5 litres

MIXED PRODUCT

Consistency Homogeneous Paste

Wet Density 1700 kg/m³

pH 10 – 12

Pot Life 3.0 – 4.0 hours

Open Time 30 minutes

Setting Time 2 – 4 hours

Drying Time 24 hours

TENSILE ADHESION STRENGTHS

28 days > 1 N/mm²

Water Immersion > 1 N/mm²

Heat Ageing > 1 N/mm²

Freeze / Thaw > 1 N/mm²

20 Min Open Time > 1 N/mm²

30 Min Open Time > 0.5 N/mm²

Deformation > 2.5 mm + < 5 mm



APPLICATION

SUBSTRATE PREPARATION

All substrates must be dry, flat, solid, structurally sound, free of loose particles, paint, grease, oil, wax, dust and any contamination which may inhibit or prevent adhesion. Cementitious substrates, such as concrete, screeds and renders must not be subject to shrinkage after the installation of tiles. Steel trowelled concrete should be mechanically abraded to provide a key. Fibre cement sheet substrates must be fixed in accordance to the manufacturer's instructions and the relevant Australian Standards. Highly absorbent substrates should be primed with appropriate DUROTECH™ primers.

MIXING

Pour approximately 5 – 5.5 litres of clean, cold water into a clean container and slowly add 18 kg of DUROTILE™ PRO while slowly mixing with a low speed mixer. Mix thoroughly to a smooth, homogeneous consistency. Allow the mix to slake for approximately 5 minutes and then stir again briefly. The adhesive is now ready for use. Mixed this way, the adhesive has a pot life of approximately 4 hours.

APPLICATION OF THE ADHESIVE

To maximize adhesion of DUROTILE™ PRO, spread a thin layer of the adhesive onto the substrate. Immediately thereafter, build up the required thickness using the notched side of the trowel.

For external applications, areas subject to traffic or point loads, also spread the adhesive onto the back of the tile (back-butter) in order to achieve full coverage and to eliminate any voids under the tiles. Do not spread more adhesive than can be covered with tiles within the adhesive's open time.

Where possible, spread adhesive so as to leave horizontal ribs on walls and unidirectional ribs on floors.

Discard any material that has exceeded the pot life or working time of the product. Press tiles firmly into freshly notched adhesive within the open time and move the tile at least the width of a rib perpendicular to the adhesive ribs. Adjust tiles as necessary within 45 minutes of installation.

The open time of DUROTILE™ PRO is approximately 30 minutes under normal temperature and humidity conditions. If product skins early due to harsh conditions, the adhesive should be re-trowelled or discarded.

Tiling installed with DUROTILE™ PRO must not be subjected to rain or washout for at least 24 hours after installation, and should be protected from direct sunlight for 36 hours. Remove any adhesive from the face of tiles with a damp cloth while the adhesive is still fresh.

CLEAN UP

Clean all tools and equipment with water before the adhesive dries.

OPEN TO TRAFFIC

Floors are ready to receive light foot traffic after approx. 24 hours and may be put into full use after approximately 3 days.

CONSUMPTION

Approximately 1.2 kg per m² per mm of adhesive thickness.

PACKAGING

DUROTILE™ PRO is available in 18 kg paper bags.

STORAGE

Stored in original, unopened packaging, in cool dry conditions, DUROTILE™ PRO will keep for 6 -12 months. Storing in areas of high humidity or excess moisture may affect the contents and shorten shelf-life.

HANDLING

Use only in well ventilated areas. Wear protective clothing to minimise skin contact. The use of P1 Masks, tight fitting goggles and barrier creams is recommended.

SAFETY

DUROTILE™ PRO contains cement, which can be irritating to the skin and eyes. During use, avoid inhalation of dust and contact with the skin and eyes. Wear suitable clothing, gloves, eye protection and respiratory protective equipment.

If contact with the skin occurs, thoroughly clean the area with plenty of fresh water and soap. In case of contact with the eyes rinse with plenty of fresh water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting.

For further information consult the Material Safety Data Sheet and read the product label carefully before use.

LIMITATIONS

Do not use:

- On wooden, PVC, rubber, linoleum, metal or painted substrates;
- For the installation of moisture sensitive stone or agglomerates

Please Note: The information given in this data sheet is based on our current knowledge of the product when properly stored, handled and applied. We cannot guarantee that the product will be suitable, effective or safe when used for any purpose other than its stated uses. To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no responsibility for loss or injury caused by improper use, incompetent preparation, inexperienced or negligent application, or ordinary wear and tear. Service or advice given by our staff should not amount to responsibility for the project - since the owner, or their contractor (and not DUROTECH™), is responsible for procedures relating to the application of the product.

VICTORIA

34 Indian Drive Keysborough
Victoria 3173
Tel: 1300 434 272
sales@durotechindustries.com.au
www.durotechindustries.com.au

NEW SOUTH WALES

1 Prince William Drive, Seven Hills,
NSW, 2147
Tel: 1300 434 272
sales@durotechindustries.com.au
www.durotechindustries.com.au

QUEENSLAND

1/16 Export Drive, MOLENDINAR
QLD 4214
Tel: 1300 434 272
sales@durotechindustries.com.au
www.durotechindustries.com.au

SOUTH AUSTRALIA

30C Richard Street
Hindmarsh, SA, 5007
Tel: 1300 434 272
sales@durotechindustries.com.au
www.durotechindustries.com.au

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