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a.b.e.[®] Construction Chemicals

dura.[®]flex

DO-IT-YOURSELF

TWO PART FLEXIBLE WATERPROOFING SLURRY



Waterproof shower before tiling



Waterproof reservoirs



Waterproof balconies and terraces

WATERPROOFING

DESCRIPTION

dura.[®]flex is a ready to use flexible slurry based on a special synthetic resin dispersion and a blend of selected cements mixed with carefully graded aggregate.

USES

- Protection and repair of balconies, terraces and haunching concrete structures and bridges.
- Waterproofing of new and old buildings (internal and external).
- Waterproofing of showers, tanks, containers and water reservoirs.
- Can be painted and covered with tiles.
- Can be applied for damp proofing.

ADVANTAGES

- Excellent waterproof barrier.
- Effective on negative or positive side.
- High bond strength.
- Excellent freeze/thaw resistance.
- Excellent resistance to chloride ion penetration.
- Brush, trowel, or spray applied.
- Reliable application.
- Self-curing.
- Resistance to water pressure (after seven days' cure): Positive pressure of 10 atmospheres, negative pressure of 4 atmospheres.
- May be applied on damp surfaces.
- Low in place cost.
- Non-toxic.
- Good abrasion resistance.
- Approved for use in potable water systems.

COLOUR



PHYSICAL PROPERTIES

Pot life @ 10 °C	2 hours
@ 20 °C	1 hour
@ 30 °C	30 minutes
Recoatable	16 hours
Resistant to mechanical stress	3 days
Full cure	7 days
Resistance to water pressure	Attained after 7 days
Positive pressure	10 atmospheres
Negative pressure	4 atmospheres

SURFACE PREPARATION

All surfaces to be clean, dry, sound, free of all laitance, grease, oil, fungal growth and loose and flaking particles that might affect adhesion. Concrete may require grit blasting. Cracks less than 0.3 mm in width can be coated as long as the crack is not likely to open up more than 0.3 mm.

Cracks greater than 0.3 mm in width should be chased out to 4 mm in width and ±15 mm in depth. This should be filled with **dura.[®]flex** (applied using less liquid providing a thicker consistency). When material in the crack has hardened the coating should be applied over the crack.

BONDING/PRIMING

No priming required.

MIXING

It is essential to use a mechanical mixer, such as a slow speed electric drill fitted with a suitable paddle.

Fill approximately three quarters of component A (milky liquid) into a pail and, with continuous stirring, slowly add component B (grey powder).

Mixing must be continued until the mix is homogeneous and free of lumps.

For horizontal surfaces such as the base of reservoirs, add the remaining component A. For other applications add only sufficient component A to provide a suitable consistency. When the two components are mixed together, a plastic thixotropic liquid results which is easy to apply.

COVERAGE

8 m²/15 kg for 1 mm wet film thickness. Minimum coverage of 2 kg/m²/mm, applied in not less than two coats.

APPLICATION

dura.®flex may be applied with a short bristled brush, rubber squeegee, trowel or spray.

Brush:

Should be applied in three coats to provide a final dry film thickness of 2 mm to 3 mm on surfaces. Alternate coats should be applied at right angles to each other, allowing 16 hours between coats.

Trowel:

First coat should be applied at a thickness of 1 mm to 1.5 mm using a normal trowel. Allow to cure for 16 hours.

Second coat should be applied by using a notched trowel and levelled immediately by using a spiked roller.

CLEANING

Tools, brushes and mixing equipment should be cleaned immediately after use and before material has set with **abe® super brush cleaner** followed by washing with soap and water.

PROTECTION/MAINTENANCE ON COMPLETION

dura.®flex may be left as is, be tiled over or overcoated with a high quality PVA/acrylic paint.

PACKAGING

5 kg and 15 kg (two part).

HANDLING AND STORAGE

Shelf-life of six months, but shorter if in extreme conditions. Keep tightly sealed in a dry cool place in the original packaging.

CAUTION

It is essential to use a mechanical mixer, such as a slow speed electric drill fitted with a FESTO mixer that has a helical coil mixing head for best results.

HEALTH AND SAFETY

Product safety information required for safe use is not included. Before handling, read product and safety datasheets and container labels for safe use, physical and health hazard information. The safety datasheet is available from your local **a.b.e.® Construction Chemicals** branch.

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Registration Number: 1982/005383/07
101 Main Reef Road, Boksburg North, 1459
PO Box 5100, Boksburg North, 1461

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