

DURAL 616

WET-TO-DRY CONCRETE ADHESIVE

**EUCLID CHEMICAL****PACKAGING**

DURAL 616 is packaged in 1 litre kits and 5 litre kits.

APPROXIMATE YIELD

1 to 3m²/litre, depending on the substrate profile.

CLEAN-UP

Clean equipment immediately after use with Pro-Struct 105 Cleaner and rinse with clean water.

SHELF LIFE

24 Months if stored between 15°C to 30°C.

DESCRIPTION

DURAL 616 is a 2-component, solvent-free modified epoxy designed to penetrate dry concrete surfaces and bond wet new concrete to it. The properties achieved caters for the movement differential between the old and new concrete.

PRODUCT CHARACTERISTICS**FEATURES / BENEFITS**

- Bonds new concrete to existing
- Gives waterproofing bond line
- Solvent-free

PRIMARY APPLICATIONS

- Raising floor levels subjected to traffic
- Ensuring new repair patches do not delaminate
- Barrier for rising moisture in the absence of DPC

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

TYPICAL PROPERTIES	AT 25 °C
Colour	Grey
Consistency	Liquid
Volume Solids	100%
Number of Components	2
Mix Ratio by Volume (Base:Activator)	2:1
Pot Life	60 to 90 Minutes
Apply Over	Prepared roughened concrete
Apply By	Stiff Brush
Initial Set	4 Hours at 25 °C 8 Hours at 15 °C
Service	24 Hours
Full Cure	4 Days
Application Temperature Range	10 °C to 35 °C
Maximum Service Temperature	60 °C
Compressive Strength	>60 MPa
Tensile Strength	>8 MPa
Concrete Bond Strength	Breaks concrete
VOC	6 g/l

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DIRECTIONS FOR USE

Surface Preparation:

Surfaces must be clean, dry and sound. Exposed concrete must be scarified or chipped to show a well bonded main aggregate. Loose particles and dust should be removed by sweeping, then vacuumed. Feather-edging is not desirable for repairs to old slabs. A perimeter edge of 10mm minimum depth should be provided for a durable repair.

Mixing: Precondition material to between 15°C and 25°C before using. Pre-mix each component of the kit. Add the Activator component to the Base component and mix thoroughly for 3 minutes with a slow speed drill fitted with a stirrer. Do not aerate or mix more material than can be placed in 30 minutes.

Application: Using a stiff bristle brush, evenly apply the material to the exposed aggregate surface, ensuring complete coverage is achieved, removing pools of product which may have gathered in cavities. The new concrete is then poured onto the wet adhesive within 1 hour of placement. If the adhesive is allowed to set before concrete placement, surfaces should be re-prepared by chipping and the adhesive reapplied.

PRECAUTIONS / LIMITATIONS

- Application temperature of substrate to be 10°C and rising. Low temperatures adversely affect application spread rates and time to achieve bond.
- Hot temperatures decrease working time.
- Do not apply over wet surfaces.
- Do not thin with solvent.
- Use materials in strict accordance with the manufacturer's Safety Data Sheet.
- Protective clothing and equipment will significantly reduce risk of injury.
- Body coverage apparel, safety goggles and impermeable gloves are recommended.
- In case of contact, flush with copious amounts of water and seek medical attention.
- Dispose of waste materials and containers in strict accordance with Government regulations.

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