

DURAL 632 & 632/22

CHEMICAL RESISTANT COATING, LINING & GROUTING RESIN



EUCLID CHEMICAL

PACKAGING

DURAL 632 & 632/22 is packaged in 1 litre and 5 litre kits, Parts A & B

APPROXIMATE YIELD

Laminating: 0.66m²/litre with 300g CSM

Coating: 3 to 5m²/litre

Mortar: 1 Litre + 6kg # 622 Aggregate = 3.6 litres/m² at 3.6mm thick

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 35°C

DESCRIPTION

DURAL 632 & 632/22 is a two-component, solvent-free liquid epoxy resin designed to have excellent surface wetting properties of substrates promoting adhesion, even under low temperature damp conditions. The cured chemical resistance and mechanical properties achieved make it an ideal construction site liquid resin system for adverse weather conditions.

PRODUCT CHARACTERISTICS

FEATURES / BENEFITS

- Protection of concrete or steel
- Cures under cold damp conditions
- Excellent chemical and water resistance
- Can be used with fiberglass for laminating
- Versatile site grouting, patching and screeding compound
- Quick strength development

PRIMARY APPLICATIONS

- Laminating with chopped strand mat in effluent tanks
- Grouting reinforcing bars under damp conditions
- Versatile grouting mortar when mixed with graded Stonhard # 622 Aggregates for concrete repairs and 5mm chemical resistant floor screeds
- Crack injection resin applications under adverse conditions
- Seal concrete floors from dusting

TECHNICAL INFORMATION

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

TYPICAL PROPERTIES	AT 25 °C
Colour	Darm Amber
Consistency	Liquid
Volume Solids	100%
Number of Components	2
Mix Ratio By Volume (Base:Activator)	2:1
Pot Life	20 to 30 Minutes
Apply Over	Prepared concrete surfaces
Apply By	Pour, Brush, Roller or Trowel
Initial Set	8 Hours - recoat
Service	24 Hours
Full Cure	5 Days
Application Temperature Range	5°C to 35°C
Maximum Service Temperature	50°C Wet / Dry
Compressive Strength	> 55 MPa at 7 days
Tensile Bond Strength	> 5 MPa
Concrete Bond Strength	Breaks concrete
12mm Rebar Pull-out Depth 126mm	Bar failure 50 kN
VOC	6.5 g/l

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DIRECTIONS FOR USE

Surface Preparation: Remove all oils, grease and other contaminants by scrubbing with Carboclean 252 and rinsing with clean running potable water to obtain a water break-free surface. Allow to dry. Abrade the surface by vacu-blasting or scarifying to expose the aggregate and open all voids. If grinders are used to remove thin coatings, reduce or smooth the surface profiles, it will not give a surface pattern suitable for coatings unless followed by etching or vacublasting. The roughened surface should have a texture similar to 80-grit sandpaper, minimum tensile strength of 2 MPa and moisture content of 5% maximum. Refer to the product data sheet for additional surface preparation requirements.

Mixing: Pre-condition material to between 10°C and 23°C before using. Premix each component of the kit. Add the Activator component to the Base component and mix thoroughly for 3 minutes with a slow speed mechanical mixer. Do not aerate or mix more material than can be placed in 30 minutes. To prepare an epoxy mortar, slowly add pre-packaged Stonhard 622 Dry Aggregate to a kit of mixed resin and mix to a uniform consistency.

Application: Apply using squeegees and backroll with medium nap rollers, ensuring material is forced into the concrete pores. Within 8 to 12 hours, apply subsequent coats. When used as a laminating resin for tanking with fiberglass CSM, the layers should be applied wet-on-wet, utilising a fluted roller to fully impregnate the glass with resin and de-aerating it. Whilst wet, a surface tissue (PTR 684/3) is applied, saturating again with DURAL 632. This lining system must be done as one process. As a grouting resin for holding down bolts, the system can be poured into pre-drilled, dust-free holes and allowed to set for 24 hours before installation of the equipment. A high chemical resistant plaster / screed is achieved by blending the resin with a graded Aggregate # 622 in a pan mixer and applying by trowel onto suitably prepared primed surfaces. The screed must be sealed with a roller-applied coat of DURAL 632 to ensure it is non-porous and has an even gloss appearance. Clean equipment immediately after use with Pro-Struct 105 Brush Cleaner and rinse off in clean water.

PRECAUTIONS / LIMITATIONS

- Application temperature of substrate to be 15°C and rising. Low temperatures adversely affect application spread rates and time to achieve bond.
- Hot temperatures decrease working time.
- Do not apply over free standing water.
- Do not thin with solvent.
- Do not inject moving or leaking cracks.
- Minimum age of concrete must be 28 days.
- 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.

SPECIFICATION FOR DURAL 632 RESIN LINING SYSTEM

1. SCOPE OF WORKS (BOQ)

As a lining system, apply DURAL 632 Resin reinforced with 300gm CSM Engineering Fabric and PRT surface veil to all prepared wall and floor surfaces. All products to be installed strictly in accordance with the Manufacturer's guidelines.

2. SUBSTRATE

Remove all oil, grease and other contaminants by scrubbing with Carboclean 252 and rinsing with clean running potable water to obtain a water break-free surface. Allow to dry. Abrade the surface by vacu-blasting or scarifying to expose the aggregate and open all voids. If grinders are used to remove thin coatings, reduce or smooth the surface profiles, it will not give a surface pattern suitable for coatings unless followed by etching or vacu-blasting. The roughened surface should have a texture similar to 80-grit sandpaper, minimum tensile strength of 2 MPa and moisture content of 5% maximum. Refer to the product data sheet for additional surface preparation requirements.

3. SUBSTRATE REPAIR

Lightly sand to remove laitance and repair any areas that are not sound using DURAL 30/35NS. Reprofile aggregate exposed surfaces which have been chemically attacked with Eucoseal.

4. PRIMING AND COATING

Apply a generous primer coat of DURAL 632 Resin and lay in a chopped strand fiberglass mat (300gm/m²), saturating from above with DURAL 632 Resin, de-aerating all layers with a fluted roller. Whilst still wet, apply a surface tissue (PRT Reinforcing Tissue), again saturating same with DURAL 632 Resin. When cured, sand down surface and apply a final finishing coat.

This coating system must be done as one process.

The approximate coverage of DURAL 632 Resin is 1.5 litres/m² in the above-described system. It is, however, imperative that trial consumption figures be obtained on the given surface.

5. CURING

Allow the system to cure for 7 days before exposing to chemical conditions.