

DESCRIPTION

Aqua Dura-Seal 4500™ is a new generation, single component, water-based, high strength, industrial grade penetrating sealer specifically formulated to intensely improve the water and stain resistance of all concrete and natural stone surfaces for many years, with an invisible natural look, and breathable barrier. Aqua Dura-Seal 4500™ provides maximum protection for the surface from water and oil borne contaminants and is also an ideal barrier around saltwater pools or marinas. This product is used on natural stone including concrete surfaces, exposed aggregate, masonry, slate, sandstone, pavers, bricks, grout, granite, limestone, travertine, and terracotta. Aqua Dura-Seal 4500™ has no unpleasant odour or flammability problems and is therefore excellent to use for public areas. It also reduces growth of mould, fungus, mildew, and bacteria. Can be used interior and exterior.

FEATURES & ADVANTAGES

- Water based and non-flammable
- Zero VOC
- Ideal barrier around saltwater pools and marinas
- Extraordinary water resistance
- Allows easier removal of grease, dirt, and stain
- Reduces growth of mould, fungus, mildew, and bacteria
- Breathable and not film forming
- For interior & exterior use
- Easy to apply, clean & maintain

RECOMMENDED USE

- Concrete driveways and bridges
- Internal & external concrete walls
- Exposed aggregates
- Retaining walls & natural stone areas
- Polished or honed concrete
- Skate parks & public municipalities
- Pool surrounds
- Skate parks, park district facilities & public municipalities
- Restaurants and cafeterias
- Industrial and stadium hallways
- Schools, hospitals & much more...

TECHNICAL DATA & CHARACTERISTICS

APPEARANCE	Liquid
COLOUR	Clear/ Milky White
VOLUME SOLIDS	N/A
FINISH	Generally, no change in appearance, retains natural look. Some substrates may slightly darken.
COVERAGE	4 – 10m ² /L, depending on porosity of the substrate and application method.
MIX RATIO	N/A
PACK SIZES	20L
SPECIFIC GRAVITY	1.01 kg/l
POT LIFE	N/A
DRYING TIME	2 – 8 hours @ 25°C
RECOAT TIME	N/A
FULL CURE	N/A
SHELF LIFE	12 months, if properly stored in original unopened containers at temperatures between 10° C and 30°C, away from sunlight.

* The pot life depends on climatic conditions and temperatures.

** Drying times generally depend on air circulation, temperature, film thickness, and application methods. The figures given above are typical with good ventilation, typical film thickness and single coat application.

SURFACE PREPARATION

All surface preparations must be carried out to Australian Standard or International Standard. New concrete must be cured for a minimum of 28 days before a coating.

Concrete moisture test should be carried out prior to coating application as per Standard ASTM4263 and/ or International Standard. The moisture content should be less than 4%.

Surface to be treated must be structurally sound and the substrate compressive strength should be at least 25MPa. The substrate tensile strength should be at least 1.5N/mm². All non-structural cracks, holes and surface deformities should be repaired.

In general, the surface to be treated **MUST** be clean and free of all traces of loose material, dirt, debris, mildew, oil, grease, old coatings, curing compounds, release agents, laitance, dust, and other contaminants.

All new or old concrete surfaces should be prepared by mechanical grinding, abrasive blasting, blast tracking, or any other suitable preparation/cleaning methods. Surface profile should exceed CSP 3 after preparation. Check if all traces of oil and other contaminations has been completely removed prior coating application.

For more detailed information, see following standard codes of practice, guides, and techniques:

ASTM D4258 Standard practice for surface cleaning concrete for coating

ASTM D4259 Practice for abrading concrete

ASTM D4260 Practice for liquid and gelled acid etching of concrete

ASTM D4262 Test method for pH of chemically cleaned or etched concrete surfaces

ASTM D4263 Test method indicating moisture in concrete by the plastic sheet method

ASTM D4285 Test method for indicating oil or water compresses air

APPLICATION & GUIDELINES**Mixing**

Shake well before use.

Application

In general, the surface to be treated **MUST** be clean and free of all traces of loose material, dirt, debris, mildew, oil, grease, old coatings, curing compounds, release agents, laitance, dust, and other contaminants. Protect any adjacent areas by masking to avoid splashes or overspray onto surfaces not intended to be treated. Aqua Dura-Seal 4500™ is ready to use and should be applied when the surface is completely dry. Shake well to ensure thorough mixing. Apply product via flood coating to the point of saturation using a brush, roller or low-pressure spray and give the whole surface a wet look. Use a broom to work product into surface. If Aqua Dura-Seal 4500™ sucks straight into the substrate a lot, you might need to feed more product instantly into the surface. Do **NOT** allow pooling on surface as it may result in a residue that will need to be mechanically removed. Remove any excess product with a mop or microfibre cloth prior to fully drying. Do not apply outdoor if rain is imminent or forecast.

Curing Times

Dry Times: 2-8 hours, Full cure with maximum resistance: 24 hours. Allow coating to cure for at least 24 hours before subjecting to vehicular traffic. All drying times depend on climatic conditions, temperatures, ventilation, humidity, and application methods.

Cleaning

Clean all equipment immediately after use with water.

Coating Maintenance

In general dirt, dust, contaminants, and excessive wear and tear will shorten the life of coating. Keep these areas clean and free from such pollutants and avoid excessive wear and tear. Clean coating regularly with warm mild pH neutral detergent water up to 60°C and rinse with clean water. Do not use abrasive brushes, scouring pads or solvent to clean the coated surface. It is advisable if abnormal wear and tear will occur through moving furniture such as office chairs, keep these areas protected with a protective mat. Further to the above cleaning recommendations please ensure immediate cleaning of any spills. Refer to DCC Maintenance & Cleaning Guide for detailed information.

Compatibility & Suitability

Do **NOT** mix this product or use this product in combination with any other products or brands. Due to the differences in substrates, material and site conditions, and environmental surrounds, the applicator holds whole responsibility for checking the products suitability for its intended purpose prior application. Only products of the same brand/system should be used in combination as a system.

PRECAUTIONS

For professional use only. Safety Data Sheets and Technical Data Sheets must be read before using and opening this product. Keep out of reach of children. Always wear personal protective equipment (PPE) when handling this product. Keep away from heat and flame. No smoking. Provide adequate ventilation. For more details refer to safety data sheet (SDS).

Do not apply if the air or surface temperature is below 10°C, or if the temperatures are subject to drop below 10°C during applying, or after application within the curing time.

Do not apply if substrate is subject to hydrostatic pressure or rising dampness.

Do not apply if surface is subjected to unusual high temperatures above ambient temperature.

Do not apply if the surface temperature is over 30°C, or if the surface temperature is subject to raise above 30°C during applying, or after application within the curing time, or if relative humidity is suspected to become above 85%.

Do not apply if substrate is subject to rain or moisture and protect surface at least 24 hours against any water impact, or moisture after application within the curing time. Do not use any product past its pot life. Store locked up, in a cool, dry, well-ventilated place, away from sunlight, between 10°C and 30°C. Keep container tightly closed.

DISCLAIMER

Do not apply this product if there is uncertainty about its application or surface preparation. This Technical Data Sheet is to be used as a guide only; it is NOT a specification. Durable Concrete Coatings Pty Ltd has no control over the use or storage of this product and therefore does not accept liability in this regard. Any verbal advice given should not be regarded as authoritative information. This information is subject to change without notice; therefore, all applicators should ensure they have current information. This product is intended for the use only of skilled tradesman and where applicable, statutory licensed tradesmen experienced and trained in the use of this product. Due to differences in substrates, application methods and local conditions purchasers of these products must ensure that it is suitable for their specific application before using these products. While the information contained in the TDS and SDS is accurate to the best of our knowledge, Durable Concrete Coatings Pty Ltd cannot guarantee that the information contained is wholly comprehensive. Subject to the provisions of the Trade Practices Act, the company's liability in relation to defective products shall be limited to replacement of the product, if the product is proven to be defective. All Durable Concrete Coatings Pty Ltd terms and conditions apply.

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