

## DESCRIPTION

**DensiP Ultra-Hard 1500™ Potassium Densifier** is a medium-grade, water based, high strength penetrating potassium densifier which has been specifically formulated to strengthen and harden the concrete. It provides a surface that will be more resistant to wear, chemicals and dusting. Due to the products unique feature it has excellent penetration, good dry and thorough cure. DensiP Ultra-Hard 1500™ Potassium Densifier is suitable for use on concrete surfaces and exposed aggregates, and also an excellent choice for polishing concrete. This high performance product will increase the life of concrete and provide maximum protection.

## FEATURES & ADVANTAGES

- Water based and non-flammable
- Low VOC
- Excellent penetration
- Ideal for all concrete surfaces
- Strengthen and increases life of concrete
- Increases abrasion resistance
- Reduces growth of mould, fungus, mildew and bacteria
- Breathable and not film forming
- For interior & exterior use
- No odour
- Easy to apply

## RECOMMENDED USE

- Concrete driveways and bridges
- Internal & external concrete walls
- Exposed aggregates
- Warehouses
- Polished or honed concrete
- Car parks
- Industrial factories
- Concrete footpaths
- Old and dusty concrete
- Industrial and stadium hallways
- Basements & parking decks
- Schools, hospitals & much more...

## TECHNICAL DATA & CHARACTERISTICS

APPEARANCE	Liquid
COLOUR	Clear
VOLUME SOLIDS	N/A
FINISH	N/A
COVERAGE	4 – 10m <sup>2</sup> , depending on porosity of the substrate and application method.
MIX RATIO	N/A
PACK SIZES	20L
SPECIFIC GRAVITY	1.12 kg/l
POT LIFE	N/A
DRYING TIME	2 – 8 hours @ 25°C
RECOAT TIME	N/A
FULL CURE	24 hours @ 25°C
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 time 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/mm<sup>2</sup>. 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, 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 and other contaminants, and any moisture. Protect any adjacent areas by masking to avoid splashes or overspray onto surfaces not intended to be treated. DensiP Ultra-Hard 1500™ Potassium Densifier is ready to use and should be used when the surface is completely dry. Shake container 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. If applying using low pressure spray method, ensure you thoroughly brush in the material with a broom to ensure maximum penetration. If DensiP Ultra-Hard 1500™ Potassium Densifier sucks straight into the substrate a lot, you will need to feed more product instantly into the surface. Do NOT allow pooling on surface as it will result in a residue that needs to be mechanically removed. Remove any excess material from your surface prior to fully drying. Do not apply outdoors if rain is imminent or forecast.

**Curing Times**

Drying time 2-8 hours, Light Foot Traffic 6-12 hours, Full Cure & Vehicular Traffic 24 hours. Allow DensiP Ultra-Hard 1500™ Potassium Densifier 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 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**

Safety Data Sheet and Technical Data Sheet 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 is 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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