ANTI-GRAFFITI COATING NS 4500™

Date of Issue – May 2022 V1.1
This TDS replaces all previous versions.

TECHNICAL DATA SHEET

DESCRIPTION

Anti-Graffiti Coating NS 4500™ is a two-pack component, non-sacrificial, anti-graffiti coating. This product is designed for a protective anti-graffiti solution to protect the permanent defacement and tagging of surfaces from commercially available spray paints. Anti-Graffiti Coating NS 4500™ is a film forming anti-graffiti coating and sets the standard for versatility which can be applied to a wide variety of both unpainted and painted surfaces. This unique product is non-yellowing, UV stable and available in clear or coloured.

FEATURES & ADVANTAGES

- Two-pack crosslinking technology
- Non sacrificial
- Ideal graffiti barrier
- Extraordinary resistance
- Allows easier removal of grease, dirt, and graffiti
- Reduces growth of mould, fungus, mildew, and bacteria
- Film forming
- For interior & exterior use
- Easy to apply, clean & maintain

RECOMMENDED USE

- Concrete walls and bridges
- Internal & external concrete walls
- Exposed aggregates
- Retaining walls & natural stone areas
- Skate parks & public municipalities
- Internal Hallways
- Park district facilities
- Restaurants and cafeterias
- Shopping Centres
- Industrial and stadium hallways
- Schools, hospitals & much more…

TECHINCAL DATA & CHARACTERISTICS

APPEARANCE	Liquid
COLOUR	Clear
VOLUME SOLIDS	46%
FINISH	Will deepen the look of substrates.
COVERAGE	10 – 12m², depending on porosity of the substrate and application method.
MIX RATIO	3 : 1 (3 Parts A to 1 Part B) by Volume
PACK SIZES	20L Kit / 15L Part A, 5L Hardener Part B
SPECIFIC GRAVITY	Part A 0.97 – 1.60 kg/L |Part B 0.95 – 0.97 kg/L
POT LIFE	35 – 60 minutes
DRYING TIME	2 – 6 hours @ 25°C
RECOAT TIME	4 – 24 hours @ 25°C
FULL CURE	7 days @ 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 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.

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SURFACE PREPERATION

All surface preparation 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 coating application as per Standard ASTM D4263 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. 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. Check if all traces of oil and other contaminants have been completely removed. Sprinkle a few waters drops over the surface, and if all the water is quickly absorbed, the surface is sufficiently oil and grease free. If the water beads up, even in certain areas only, further preparation/cleaning must be carried out.

For more detailed information, see the following standard codes of practice, guides, and techniques:
ASTM D4258 Standard Practice for Surface Cleaning of 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 in Compressed Air

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APPLICATION & GUIDELINES

Mixing Clear Version
Mix Anti-Graffiti Coating NS 4500™ (3 Parts A) with Anti-Graffiti Coating NS 4500™ Hardener (1 Part B). The mix ratio is 3:1 by volume. Always add Part B into Part A and make sure you add Part B slowly while mixing Part A. Use a mechanical mixer to ensure thorough mixing and avoid aeration when mixing the product. Use a lint free epoxy roller to apply the product. Always mix full pack sizes to avoid incorrect measure of ratio.

Mixing Tinted Versions
First stir the Anti-Graffiti Coating NS 4500™ Part A thoroughly before use to disperse the colour pigments consistently. Mix Anti-Graffiti Coating NS 4500™ (3 Parts A) with Anti-Graffiti Coating NS 4500™ Hardener (1 Part B). The mix ratio is 3:1 by volume. Always add Part B into Part A and make sure you add Part B slowly while mixing Part A. Use a mechanical mixer to ensure thorough mixing and avoid aeration when mixing the product. Ensure you continue thoroughly mixing throughout the entire application process to ensure even pigmentation dispersal. If not stirred consistently during the application process, colour variations may occur due to tint pigments settling at the bottom of the drum. Use a lint free epoxy roller to apply the product. Always mix full pack sizes to avoid incorrect measure of ratio. Mix thoroughly and check colour and gloss level before application. If your project requires multiple kits, please box the kits together for colour consistency. The applicator/customer is responsible for applying the correct colour.

Application
Priming is recommended before the first coat to prevent pin holing and to minimise sink-back of material. Check colour prior to application if you are using a tinted version. For your prime coat add 10% - 25% Solvent SLP100™ for dilution, and for base coat add 5% Solvent SLP100™ for dilution by volume per mixed litre. This applies for the gloss, satin, or coloured version. Discard all leftover Anti-Graffiti Coating NS 4500™. Do NOT pour unused material back into the original container as this will cause the material to react and gel/cure within the drum.
Two coats as minimum recommended. Use a lint free epoxy roller to apply the product. The second coat must be applied within 24 hours of the application of the first coat to ensure the second coat will bite into the first coat. If 24 hours has been exceeded, the first coat must be sanded prior to application of the second coat to assure a sound adhesion between coats.

Curing Times
Pot Life: 35-60 minutes, Touch Dry: 2-6 hours, Recoat: 4-24 hours, Full Cure: 7 days.
Allow coating to cure for at least 24 hours before subjecting to light pedestrian traffic and at least 7 days for full cure and vehicular traffic. The pot life depends on climatic conditions and temperatures. All drying times depend on film thickness, ventilation, temperature, humidity, and application methods. All curing times mentioned in this TDS are based on temperatures of 25°C. Lower temperatures will extend curing times. If the temperature in your region is 12.5°C, all curing times will double e.g., full cure will be approximately 14 days. DCC does not recommend Anti-Graffiti Coating NS™ application when temperatures are below 10°C.

Cleaning
Clean all equipment immediately after use with Solvent SLP100™.

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 to application. Only products of the same brand/system should be used in combination as a system.

TECHNICAL DATA SHEET

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 personnel 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). Durable Concrete Coatings cannot guarantee that every type of graffiti can be completely removed. This technology may not be able to protect against graffiti agents which etch, or otherwise damage the substrate, surface, or anti-graffiti coating. Full cure and highest protection are achieved after 7 days of curing.

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

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

Do not apply if the 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 likely to rise above 30°C during application, or after application within the curing time, or if relative humidity is expected to become above 85%.

Do not apply if the substrate is subject to rain or moisture and protect the surface for 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. Durable Concrete Coatings Pty Ltd terms and conditions apply.

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