ANTI-SLIP ADDITIVE AS400™

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This TDS replaces all previous versions.

TECHNICAL DATA SHEET

DESCRIPTION

Anti-Slip Additive AS400™ are used to provide slip resistance with floor coatings in residential, commercial and industrial areas. They can be used for stair cases, ramps, elevators, commercial kitchens, wet areas, passageways, walkways, showers, machine shops, locker rooms, automobile maintenance shops, pools, garages, hangars, cold storage rooms, warehouse floors, factories and more. The slip resistance is subject to the applicator. To comply with the slip resistance AS/NZS 4586 and AS/NZS 4663, you must contact the National Association of Testing Authorities (NATA) for an accredited specialist in slip resistance testing who is an official Registered Testing Authority (RTA), which is defined by the National Construction Codes (NCC), also known as the Building Code of Australia (BCA) to verify the quality and reliability in testing and certification of slip resistance. Disclaimer: Durable Concrete Coatings Pty Ltd is not responsible for the product field performance and any liability claims in any form and matter as the use and application of this product is beyond our control.

FEATURES & ADVANTAGES

- Strong anti-slip properties
- Extreme abrasion resistance
- Excellent chemical resistance
- Superb hot water resistance
- Optimal shape and size uniformity
- Available in varied sizes & grades
- Customizable to archive different anti-slip rating grades
- Perfect for heavy-duty environments
- Extraordinary resilience
- Easy to apply, clean & maintain

RECOMMENDED USE

- Bars, Pubs & Taverns
- Butcher Shops and Commercial Kitchens
- Food Processing Plants & Grocery Stores
- Schools, Stadiums & Hallways
- Showrooms, Garages and Workshops
- Lobbies, Lounges, Nightclubs & Foyers
- Salons, Retail Stores and Wineries
- Shopping Centres and Retail Flooring
- Museums, Office Buildings & Galleries
- Restaurants & Lunch Rooms
- Veterinary Clinics, Zoos & more…

TECHNICAL DATA & CHARACTERISTICS

APPEARANCE	Granules / Powder – variable mesh sizes
COLOUR	Clear/Natural/Variable
VOLUME SOLIDS	N/A
FINISH	N/A
COVERAGE	300g – 3kg/m² - depending on anti-slip rating grade to be achieved
MIX RATIO	N/A
PACK SIZES	4kg and 5kg
SPECIFIC GRAVITY	0.75 – 2.5 kg/l
POT LIFE	N/A
DRYING TIME	N/A
RECOAT TIME	N/A
FULL CURE	N/A
SHELF LIFE	60 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/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

The Anti-Slip Additive AS400™ can be cast, mixed or sprinkled into the coating system during the process of application. However, some additives do not float and tend to sink when mixed into the drum. For those additives, the preferred application method is to cast or sprinkle the anti-slip additive into the wet basecoat on the floor. For floating additives, ensure the material in the bucket is regularly stirred during the application process to avoid the additive eventually settling on the bottom of the bucket. If not observed, coating differences might occur.

Application in Epoxy, Urethanes, Polyaspartic or Clear Coats

Always prime surface before the first coat to prevent pin holing and to minimise sink-back of material/basecoat. Prime coat with approximately 7-12m²/L, check for pinholes and do a 2nd prime coat if necessary.

Wearing spike shoes for this application type is strongly recommended. Apply basecoat and work from the end of the room backwards to the exit.

The anti-slip additives must be applied during the process of the basecoat application and while the basecoat is still wet to ensure the anti-slip additives will stick properly to the basecoat. Be cautious if the basecoat becomes too dry, the anti-slip additives will not stick to it and you might end up with areas looking patchy and not evenly covered.

With big flooring projects, we recommend using more applicators to carry out the task in a timely manner. While the basecoat is still wet, start throwing/sprinkling the anti-slip additives over the wet base coat to the amount and coverage desired. When the basecoat has been cured, sweep up all loose material of the floor and keep left over material aside. Use a vacuum cleaner to thoroughly remove any remaining loose anti-slip additives. Apply second coat to “lock in” the anti-slip additives. If there is some patchiness within the floor, sprinkle some anti-slip additives from the left-over material onto the patchy areas into the second coat to rectify the patchiness, while the coat is still wet and backroll the area. Use a lint free epoxy roller to apply the product. Depending on the product used, the second coat must be applied within 4-24 hours of the application of the first coat to ensure the second coat will bite into the first coat. If the recoat window has been exceeded, the first coat must be sanded prior to application of the second coat to assure a sound adhesion between coats.

Note: Recoat window times are estimates only and depend on the product and system used. Please check with the relevant Technical Data Sheet of the used product/system. DO NOT exceed the recoat window times at all!

Curing Times

Depend on the epoxy and coatings system used. In general, 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 time depends on climatic conditions and temperatures. All drying times depend on film thickness, ventilation, temperature, humidity and application methods.

Cleaning

Clean all equipment immediately after use with water or 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 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 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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