

DESCRIPTION

Epoxy Crack Repair Paste EP100™ is a 100% solid, solvent free, non-shrink, heavy duty two-pack epoxy resin matrix of superior quality which is specifically formulated and intended to fill in cracks, holes, and form coving in residential, commercial, industrial environments. Available as a fast & standard cure. The exceptional resistance to a wide variety of chemical spillage and fumes makes this product ideal for use in high traffic and commercial environments, where a lasting solution to floor maintenance problems is required. The product has a high corrosion resistance, excellent adhesion, extreme high durability, solvent free, joint less, easy & fast to apply, and is easy to clean and maintain.

FEATURES & ADVANTAGES

- Non-shrink
- Excellent adhesion/inter-coat adhesion
- Extreme abrasion resistance
- Extreme durability
- Excellent water & chemical resistance
- Extraordinary resilience
- Retards growth of mould, fungus, mildew and bacteria
- Perfect for heavy-duty environments
- Solvent free
- 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	Paste
COLOUR	Clear / Slight Amber
VOLUME SOLIDS	100 %
FINISH	N/A
COVERAGE	Varies, depending on depth of the crack, or on the coving height specifications.
MIX RATIO	1 : 1 (1 Part A to 1 Part B)
PACK SIZES	4L Kit / 2L Part A, 2L Hardener Part B
SPECIFIC GRAVITY	Part A 1.1 kg/l Part B 1.2 kg/l
POT LIFE	Standard: 20 – 40 minutes Fast: 4 – 8 minutes
DRYING TIME	Standard: 2 – 4 hours @ 25°C Fast: 10 – 30 minutes @ 25°C
RECOAT TIME	Standard: 2 – 4 hours @ 25°C Fast: 10 – 30 minutes @ 25°C
FULL CURE	5 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 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

Mix Epoxy Crack Repair Paste EP100™ (1 Part A) with Epoxy Crack Repair Paste EP100™ Hardener (1 Part B). The mix ratio is 1:1. Always add Part B into Part A. Use a putty knife or a small scraper and ensure thorough mixing when mixing the product.

Application

Use a putty knife or a scraper to fill in cracks, or use a coving trowel to form coving. If thinning is required, you can add up to 5% Solvent SLP100™ to adjust the desired viscosity. Discard all leftover material. Do NOT pour mixed unused material back into the original container as this will cause the whole material to react and cure within the container.

Curing Times

Dry Times Standard: Pot Life: 50-90 minutes, Hard Dry: 2-4 hours, Full Cure: 5 days.

Dry Times Fast: Pot Life: 4-8 minutes, Hard Dry: 10-30 minutes, Full Cure: 3 days.

Allow product to cure for at least 24 hours before subjecting to light pedestrian traffic and at least 3-5 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. 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 or longer. DCC does not recommend epoxy application when temperatures are below 10°C as the epoxy goes into B-staging (the epoxy stops curing).

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 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.

Product will discolour on exterior exposure.

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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