EPOTEC NT

TDS72-1335

DESCRIPTION	A two pack epoxy coating designed for application to a dry surface. When fully cured, its film is taint free, non-toxic, hygienic, easily cleaned, tile-like and seamless. It possesses very high chemical resistance.
TYPICAL USES	Coating swimming pools, spas, holding tanks, ponds. Systems suitable for Concrete, Fibreglass and Plaster substrates.
ENVIRONMENT	Suitable for immersion in water and swimming and spa pools, <40 Suitable for industrial situations; on walls, floors and machinery that are subject to attack by water, chemicals, mineral oil etc.
PERFORMANCE	• Controlled pot life to get best performance. • Good long term durable coating with best UV stability. • WET SLIP RESISTANCE Approved NZS:4586;2004 • A multi-purpose high build coating for interior and exterior surfaces. • Suitable for immersion in water and swimming and spa pools, <40 • Suitable for industrial situations; on walls, floors and machinery that are subject to attack by water, chemicals, mineral oil etc. • Standard hardener for use in temperatures 13 – 20°C. • Hi Temp hardener for use in temperatures 20 - 30°C.
LIMITATIONS	Not suitable for use as a tank lining for vegetable oils and fatty acids such as lactic or acetic acid. Product has strong exotherm. Not recommended as a coating for Tiles, polyethylene or acrylic swimming pools. Do not apply over existing Chlorinated Rubber, Acrylic or Bitumen paints. EPOTEC NT (Epoxy) is a functional coating and as such is affected by UV light/weathering on the coating SURFACE. Exposure to UV can culminate in a loss of gloss and surface chalking. With chalking, the darker the original colour the greater the change over time with the coating appearing lighter than the original colour. Epoxy coatings may also yellow. While we take every step during the product development phase to minimise this effect, white and light-coloured epoxies by their nature are more likely to show this yellowing effect. Refer to PS-E006 EPOTEC NT FREQUENTLY ASKED QUESTIONS for more information. Do NOT apply EPOTEC NT EPOXY when the air temperature is below 15°C and no application at all should be attempted below 13°C ground temperature particularly in wet or humid conditions.
TECHNICAL DATA	Resin: Epoxy/Polyamine Solvent: Not Applicable Colour: Standard Colours Primer: See over. Durability: Excellent Thining and Clean Up: Epotec 107 Thinner Potlife: 90 mins @20°C Pack Size: 5,15kg Working Time: 60mins @20°C Cure to Handle: Overnight @20°C/65% RH Walk on Time: Overnight @20°C Cure Hard @20°C: 5 days Service Temperature °C: 40 Mixing Ratio: 4:1 VOC: <5g/l Vol Solids: 100 percent Touch Dry: 5-7 hours @20°C Recoat Time: Overnight @20°C Number of Coats: 2 to 3 Theoretical Coverage: 4 m²/Kg/coat Wet Film Thickness: 190 microns Dry Film Thickness: 190 microns Specific Gravity: 1.4

AVAILABLE FINISHES @60°C	**Sheen**	**Slip Rating**	**Slip Rating RUFF-IT-PLUS**
	Gloss 75+%	25-34 Y	35-44 X or R10

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SPREAD RATE

First Coat: 4 - m²/Kg/coat
Second Coat: 5 - m²/Kg/coat
Practical spreading rates will vary depending on such factors as application method, ambient conditions and surface porosity and roughness.

PRODUCT CODES

Epotec NT Epoxy (Std Colours) 72-13XX
Standard Hardener 72-0000
Hi Temp Hardener 72-0001

PRIMERS AND UNDERCOATS

Substrate	Primer / Undercoat	Technical Data Sheet
Cementitious	TUFFLOOR WB EPOXY SEALER	See TDS56-700

HARDENERS

EPOTEC NT HARDENER

Standard

Temperature °C	Pot Life	Workable Time	Touch Dry	Walk on Time	Cure to Handle
13	6 Hrs	1.5 Hrs	12 Hrs	NA	NA
20	1.5 Hrs	60 Min	6 Hrs	NA	NA
25	75 Min	45 Min	5 Hrs	NA	NA

Hi Temp

Temperature °C	Pot Life	Workable Time	Touch Dry	Walk on Time	Cure to Handle
20	3 Hrs	1.5 Hrs	6 Hrs	NA	NA
25	2.5 Hrs	1.5 Hrs	6 Hrs	NA	NA
30	95 Min	80 Min	5 Hrs	NA	NA

SURFACE PREPARATION

POOLS SURFACE PRPARATION:
All pools should have a COTEC SPECIFICATION PREPARED PRIOR TO COMMENCING of work. Contact your local Cotec Distributor or call Cotec Technical +64 9 837 0897 extn 3 to have your custom specification prepared.

INFORMAITON SHEETS and EPOTEC NT EPOXY APPLICATION NOTES must be read before starting your project, for specific details: cotec.co.nz/Infosheets.aspx?infoCat=Pools

All surface preparation information is available on COTEC SPECIFICATIONS.

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MIXING INSTRUCTIONS

Check you have selected the correct hardener for application conditions.

Epotec NT Standard hardener code 72-0000 is the normal general use hardener for most conditions except application in high temperatures. Aim to apply paint within 60 minutes.

Epotec NT Hi Temp hardener code 72-0001 is for use in application temperatures exceeding 20 Aim to apply paint within 100 minutes.

Mix EPOTEC NT EPOXY Part A (4kg) with slow speed power mixer until smooth consistency (approximately 1 minute). Be careful not to entrap air through over vigorous mixing. In colder temperatures Part A will be thicker and may require longer mixing. If using in colder temperatures, leaving the product overnight at 20°C, prior to mixing will assist reducing viscosity and make mixing easier.

Do not mix with Part B (Hardener) if the Part A is not smooth. As a rule, aim to keep product between 18-25 before use to aid incorporation of Part B.

EPOTEC NT EPOXY is mixed after adding all Hardener into the larger Resin tin (Part A). Use slow speed power mixer for 3 mins and make sure all sides and bottom are completely mixed and homogenous. Use slow steady action mixing up from the bottom and try not to get onto the upper insides of the tin. Use a spatula to scrape sides and bottom to get a completely homogenous mix.

Do not mix in air.

Immediately empty into roller tray and commence using. No waiting. Be careful not to add any unmixed material (upper insides of large tin) into the roller tray etc. as this will leave partly cured material on the pool surface.
(If mixing several packs at a time, write on each one the time, so as to use sequentially, and note time of pot life.

Use cans with same batch number for last coat to maintain a uniform colour.

APPLICATION

Surfaces to be dry. Minimum surface temperature is 13 Check with IR non-contact thermometer if in doubt. If surface temperature falls below 13°C, curing will slow and only continue at the normal rate, when the temperature rises. EPOTEC NT EPOXY may be affected with white blooming if it gets wet and when not fully cured. An extra coat may be required.

If applied when too cold, it's hard to spread out to get the correct film build. Adding thinners does not help. Warming of Part A as above is recommended.

For porous surfaces its usual to apply one coat of CONCRETE WB EPOXY SEALER first, allow to cure overnight. (See separate CONCRETE WB EPOXY SEALER for Data Sheet for details).

Apply in "H" pattern, to a uniform thickness. Lay off in ONE direction.

Allow to cure overnight (usually) 12 - 48 hours. If after 48 hours, lightly sand before second coat, with 100# grit.

Apply at least 3 coats, 4 on high wear areas, such as steps, ledges etc. Institutional environments may require additional coats. Please consult Cotec technical.

SPRAY
Graco 795 or larger. 21 thou tip. Thinn with Epotec 107 thinner 10-15%. Always back-roll to ensure effective penetration to crevices.
Spraying, consult with Coating Technologies for full details before starting the job.

BRUSH/ROLLER
Use a good quality brush for cutting in.
Smooth surfaces use 10mm Wooster Pro-Dooz roller Sleeves and 13 -20mm on rougher surfaces. Rougher surfaces, longer nap.

PRECAUTIONS
Protect EPOTEC NT EPOXY from dew, rain, and dirt for the first 6 – 12 hours at 20°C.
Has strong exotherm and do not use when it gets hot, or viscosity rises making it difficult to roll.

CLEAN UP
For clean-up of brushes and rollers use EPOTEC 107 thinner or discard after each coat.

APPLICATION NOTES

Minimum nominal thickness per coat 150µm but will cure up to 2 mm thick.

THINNING

Thinning is not normally required. First coat maybe thinned up to 2 – 5% with EPOTEC 107 thinner normal to aid roller/ brush out application and cutting in.

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ENVIRONMENTAL	This formulation uses the latest technology with low toxicity, ensuring environmental issues are not compromised. DO NOT POUR paint or wash down storm water or water courses. ALWAYS dispose of in accordance with local Government regulations. Soak up spills with absorbent material and dispose of properly. If spraying use suitable respiratory protection. Refer to the MATERIAL SAFETY DATA SHEET

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