

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. A multi-purpose immersible high build coating for interior and exterior surfaces. EPOTEC NT comes with a 5-year material guarantee.
TYPICAL USES	Coating swimming pools, spas, holding tanks, ponds. Epotec systems are suitable for Concrete, Fibreglass, Plaster, Pebblecrete, Mable plaster and Steel substrates. Suitable for industrial situations; on walls, floors and machinery that are subject to attack by water, chemicals, mineral oil etc.
PERFORMANCE	<ul style="list-style-type: none"> •Controlled pot life to get best performance. •Good long term durable coating with best UV stability. •WET SLIP RESISTANCE Approved NZS:4586;2004 •Suitable for immersion in water and swimming and spa pools, <40°C. •Standard hardener for use in temperatures 13 – 20°C. Hi Temp hardener for use 20 - 30°C. • Use of Epoxy Accelerator must ≤ 2% by total weight, only into Epotec NT Standard Hardner packs. (Max 100g/5Kg pack). Note limitations below* Available for PROFESSIONAL USE ONLY.
LIMITATIONS	<p>To maximise your pool coating life and maintain EPOTEC warranty, pool water must be continuously maintained in accordance with guidelines detailed in PS-E012 FILLING AND MAINTAINING YOUR POOL WATER.</p> <p>After curing is complete fill the pool. Do not leave the pool unfilled beyond 7 days as surface staining and coating damage may result.</p> <p>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.</p> <p>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. These aesthetic changes do not affect the performance of the coating.</p> <p>Product has strong exotherm.</p> <p>Not recommended as a coating for Tiles, polyethylene or acrylic swimming pools. Do not apply over existing Chlorinated Rubber, Acrylic or Bitumen paints.</p> <p>Not suitable for use as a tank lining for vegetable oils and fatty acids such as lactic or acetic acid.</p> <p>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.</p> <p>*Epoxy Accelerator may to impart a yellowish tint and a strong amine odor. Do not use in Final coat. Excessive dosing may lead to faster gelation and shorter pot life and interfere with optimal crosslink density and will impair physical properties. PROFESSIONAL USE ONLY.</p>

TECHNICAL DATA	Resin: Epoxy/Polyamine Product Type: Top Coat Solvent: Not Applicable Colour: Standard Colours Primer: See over. Durability: Excellent Thinning 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 Max Recoat Time: 48 Hours @20°C Number of Coats: 2 to 3 Theoretical Coverage: 4 m ² /Kg/coat Wet Film Thickness: 190 microns Dry Film Thickness: 190 microns Specific Gravity: 1.4
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AVAILABLE FINISHES @60°C	Sheen Gloss 75+%	Slip Rating 25-34 Y	Slip Rating RUFF-IT-PLUS 35-44 X or R10
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SPREAD RATE	First Coat: 4 - m ² /Kg/coat Second Coat: 5 - m ² /Kg/coat Practical spreading rates will vary depending on such factors as application method, ambient conditions and surface porosity and roughness.
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PRODUCT CODES	Epotec NT Epoxy (Std Colours) 72-13XX Standard Hardener 72-0000 Hi Temp Hardener 72-0001 EPOXY ACCELERATOR 99-0054
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PRIMERS AND UNDERCOATS	Substrate Cementitious	Primer / Undercoat TUFFLOOR WB EPOXY SEALER	Technical Data Sheet See TDS56-700
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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	11 Hrs	14 Hrs
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

Standard Accelerated

Temperature °C	Pot Life	Workable Time	Touch Dry	Walk on Time	Cure to Handle
20	45 Min	45 min	2.5 Hrs	6 Hrs	7.5 Hrs

SURFACE PREPARATION POOLS SURFACE PREPARATION:

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, EPOTEC NT EPOXY or EPOTEC SL 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 your relevant COTEC SPECIFICATIONS. If you do not have one contact COTEC TECHNICAL for assistance.

COATING TECHNOLOGIES LIMITED

10 Andromeda Crescent, East Tamaki, Auckland 2013 Ph +64 9 837 0897 www.cotec.co.nz

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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°C. Aim to apply paint within 100 minutes.

EPOXY ACCELERATOR is designed for professional use only. It can be used no more than 2% by weight in Catalysed Epotec NT. Do not use in final coat as impart a yellowish tint to the final colour. Refer to TDS prior to use.

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°C 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°C. 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. 319 to 521 thou tip.

Thin with Epotec 107 thinner 10-15%, less in warmer conditions due to lower viscosity. 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 10 to 13mm Wooster Pro-Dooz roller Sleeves
Rougher surfaces Wooster Super/Fab 19mm.

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.

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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.

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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