DATA SHEET

500T TETRATHANE

Solvent Based, UV Stable Urethane

ALL PURPOSE COATINGS

DESCRIPTION

Tetrathane® is a proprietary, single-pack, solvent-based, aliphatic, moisture cure polyurethane with an extreme level of resistance to yellowing and the direct effects of UV exposure. The product is both UV stable and UV protectant when used as a top-coat to All Purpose Coatings systems.Tetrathane® cures by reaction with moisture in the surrounding environment to create an extremely tough and durable finish. The product can be used as a standalone topical coating over prepared concrete giving a high-end, long-lasting, and gloss finish. Alternatively, use as a top-coat on most of the APC systems, Tetrathane® allows the system to be successfully installed inside and outside in partial and direct sunlight.

PRODUCT INFORMATION

Pot Life	30-45 minutes at 25°C.
Shelf Life	Up to 2-3 months after opening. Up to 6 months from the date of manufacture.
Coverage	8-10m2/Lover a smooth flat surface depending on the method of application and porosity of the surface. 2 coats are recommended. 4-6m2/L as a top coat over Ultra Flake and Hyper Flake Signature Series, Essential Finish systems.
Return to Service	**Light Foot Traffic:** 24 hours after completion of the job. **Vehicle Traffic:** 72 hours after completion of the job. **Full Chemical Cure:** 7 days after completion of the job.

RECOMMENDED USES

- As a top coat over Epoxy Flooring
- As a top coat over Ultra Flake systems
- As a top coat over Hyper Flake systems
- As a top coat over Quartz Shield systems
- Concrete surfaces for internal and External applications

FEATURES & BENEFITS

- Excellent UV resistance
- Good chemical resistance
- Helps protect base coatings (e.g. Epoxies)
- Retains clarity long term
- Easy to clean
- High gloss finish
- Long lasting

PHYSICAL PROPERTIES

CHEMICAL RESISTANCE

Based on 7 days exposure on cured film. Promptly clean-up using 150 Epoxy Thinners is best practice.

Excellent Resistance	Aliphatic Solvent
Good Resistance	Alkali, Aromatic Solvent, Mineral Acid, Water
Fair Resistance	Alcohol, Organic Acid, Oxidizing Acid

SURFACE PREPARATION

Surfaces must be clean, dry, and free from all traces of loose material, old coatings, curing compounds, release agents, laitance, oil, greases, etc. Substrate compressive strength should be at least 25MPa, cohesive bond strength at least 1.5MPa, and moisture content below 4%. Structurally unsound layers and surface contaminants must be mechanically removed by grinding or other methods. Substrates heavily impregnated with oil must be cleaned by grinding or suitable solvent cleaning methods. To check that all traces of oil have been completely removed, sprinkle a few drops of water over the surface. If all water is quickly absorbed, the surface is sufficiently oil and grease-free. Cleaning methods are to be repeated if the water is pooling on the surface.

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PRODUCT APPLICATION

Apply Tetrathane direct from the container using a brush, roller, or lamb's wool pad. As Tetrathane is somewhat self-leveling and tends to dry rapidly, it is best applied quickly and allowed to flow out on a smooth surface.

On application, ensure you keep a wet edge and keep over-rolling to a minimum; avoiding if at all possible.

Tetrathane as a Protective Coating Over:

EPO100T Plain Coat, Metallic Marble, Swirl Coat, and Diamond Finish Systems

The surface should be sanded to remove the gloss off the existing coating. A single coat over full All Purpose Coatings systems will suffice however, it is recommended that two coats of Tetrathane is applied to avoid areas being missed.

Allow a minimum of 6 hours at 20°C between coats. Depending on weather conditions, curing times may vary. If you are recoating after 72 hours, the surface should be sanded to allow inter-coat adhesion.

Ultra Flake and Hyper Flake, Essential and Crystal Finishes

Apply Tetrathane directly over a cured flake coating once excess flake has been removed. Typically, flake does not need to be sanded prior to Tetrathane top-coats. Refer to individual application instructions for further system information.

If applying two coats of Tetrathane allow a minimum of 6 hours at 20°C between coats. Depending on weather conditions, curing times may vary. If you are recoating after 72 hours, the surface should be sanded to allow inter-coat adhesion.

Cut & Coat System

Tetrathane as a standalone system will require a minimum of two coats. Allow a minimum of 6 hours at 20°C between coats. Depending on weather conditions, curing times may vary. If you are recoating after 72 hours, the surface should be sanded to allow inter-coat adhesion.

On concrete surfaces, two coats are usually sufficient to provide a dust-free surface that is resistant to chemicals and solvents.

OPTIONAL SLIP RESISTANCE

Dimple: Mix at 250g per 20L of Tetrathane achieving a mopable slip resistance

Glass: Broadcast 1 kg per 20m2 between Tetrathane top-coats. Suited for wet or external areas, not suited for internal garages; cannot be mopped.

For system specific instructions, consult the All Purpose Coatings **Installation Instruction** documentation, located on the website.

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CAUTIONS

- Tetrathane cures by reaction with moisture in the surrounding environment. In general, the higher the temperature and humidity the faster the product will cure. Acceptable curing conditions allow re-coating in approximately 6hours at 20°C.
- If recoating after 72 hours, the surface should be lightly sanded to allow inter-coat adhesion.
- In all cases, check that Tetrathane has sufficiently cured before re-coating, otherwise adverse reactions and delamination may occur.
- When temperature and humidity is high, 10% Epoxy Thinners may be added to Tetrathane to slow the curing process slightly.
- **DO NOT RETURN UNUSED PRODUCT TO THE CONTAINER. RESEAL CONTAINER IMMEDIATELY AFTER OPENING.**
- Clean material from spout and container thread before re-sealing.
- Avoid prolonged storage of part-filled and previously opened product.
- Tetrathane is not designed as an external coating for timber floors & walls or external cladding.
- If coating with Tetrathane over Epoxy, ensure the epoxy has fully cured to avoid entrapment. Which can result in the epoxy staying soft for an extended period of time.
- Some vehicle tyres may contain a protective product that reacts with some topcoats, in this case, it is recommended that a form of matting under the tyres be used to protect the finished floor until leaching from the tyres has stopped approximately 6 months or 10,000km.

In an emergency, contact the Poisons Information Centre on 13 11 26 or a doctor for advice.

IF THE SITUATION IS LIFE THREATENING, DIAL 000 IMMEDIATELY.