

DATA SHEET

EZYPOLY

One-pack, 100% Solids Polyurethane

DESCRIPTION

A solvent-free, moisture-cured polyurethane coating designed as an easy-to-use clear topcoat in all common residential, retail and commercial projects.

Quality resins and additives are selected to create a field-friendly, UV-stable coating with market-leading wear resistance.

Most importantly, Ezypoly doesn't smell at all, and it's high-build, one-coat application saves installers time and money compared to multiple coat systems. It's also formulated to allow a much longer working time, which helps achieve a beautiful, even finish on every project.

USES

Common uses for Ezypoly include:

- Garages
- Homes
- Patios
- Car Parks
- Retail Outlets
- Cafes/Restaurants
- Kitchens
- Aged Care Facilities
- Offices
- Schools
- Toilets & Changerooms
- Walkways

PRODUCT DETAILS

Type:	One-pack, aliphatic PU - 100% solids.
Colour:	Clear.
Finish:	Gloss.
Pack Size:	5 litres.

BENEFITS

- ✓ Ideal topcoat for flake floors.
- ✓ No solvents and no smell.
- ✓ Easy to use one-pack - no measuring required.
- ✓ High-build - only one coat required on most floors.
- ✓ Long working time for the best possible finish.
- ✓ Excellent initial hardness and quick return to service.
- ✓ Aliphatic with UV absorbers for better weathering.
- ✓ Pigment, matte and non-slip stir-in additives.
- ✓ Exceptional wear resistance.
- ✓ Excellent overall chemical resistance.
- ✓ Not classified as a Dangerous Good.



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PROPERTIES

Abrasion ASTM D4060-14 CS 17/1kg/1000 cycles	9mg/1000 cycles
Tensile Strength ASTM D2370-98(10)	4317psi
Elongation ASTM D2370-98(10)	12.1%

CHEMICAL RESISTANCE

25% Acetic Acid	25% Sulphuric Acid
Bleach	85% Phosphoric Acid
Ethanol	Xylene
Skydrol	Hydrocarbons/Fuels/Oils
Motor Oil	Vinegar
Acetone	

Ezypoly is resistant to exposure from spillage of most household & commercial chemicals, e.g. detergents, soaps, oils/grease etc.

Staining may occur when exposed to aggressive chemicals. Good housekeeping practices, including dilution and prompt clean up, will help minimise damage.

COVERAGE

The actual coverage achieved by Ezypoly will depend on the substrate characteristics and condition.

The theoretical yield for a 100-micron film (typical thickness) is:

5 litre drum @ 10m²/L = 50m²



CURING TIMES

	Time (@ 25°C)
Pot Life	- 45 minutes
Set (touch)	- 6-8 hours
Set (hard)	- 12 hours
Re-coat (min.)	- 12 hours
Re-coat (max.)	- 24 hours
Full Cure	- 5 days

- Approximate time frames @ 25°C.
- Curing times will decrease with increasing temperature and humidity.
- Abrade the surface before re-coating if the film has become hard and glossy.

PRODUCT NOTES

- Ezypoly should be applied at a minimum of 75 microns (13m²/L) and a maximum of 150 microns (6.7m²/L). Thicker films can cause bubbles to appear or foaming.
- Actual consumption across fully-flaked surfaces, such as stone-look or crushed flake, can be higher than maximum thicknesses (around 5m²/L or less) as more product is required to fill the spaces in between flake.
- Uncured product is sensitive to moisture, alcohols and liquid epoxy materials. Contamination can cause product failure, foam and excessive heat while mixing and applying.
- Do not re-use previously opened containers. Once the container is opened it starts to chemically react with moisture. It is not recommended this product be transferred to another container before mixing.
- Ezypoly is best applied within a temperature range of 10-30°C and humidity range of 40-60%.
- Avoid direct sunlight during application if possible. Heated substrates and films can lead to bubbles or foaming.
- Ezypoly can be applied direct to concrete, however is sensitive to excess substrate moisture content. The substrate moisture vapour emission rate must not exceed 14.6g/m² over a 24 hour period as tested using the calcium chloride test (ASTM F1869). If using a moisture testing probe, the humidity reading must not exceed 55% humidity.
- For maximum adhesion, apply Ezypoly within the re-coat window of the previous coat.

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SURFACE PREPARATION

Concrete:

New concrete surfaces should be allowed to cure for a minimum of 28 days.

Old, damaged, cracked and/or heavily contaminated concrete surfaces should be degreased with a detergent and patch repaired prior to surface preparation.

See Product Notes on previous page for guidelines on acceptable moisture content.

Diamond grind or shot blast to obtain a CSP 2-3. Properly prepared surfaces should be structurally sound and free of contamination, laitance and any loose material.

Ensure surface is clean, dry and dust-free again if there's a delay between preparation and application.

Coated Surfaces:

Maximum delay between coats is 24 hours @ 25°C. Should this time be exceeded the previous coat must be lightly abraded with 120-320 grit paper and clean to ensure a strong bond between coats. After sanding, vacuum thoroughly to remove any dust or dirt. If wiping or cleaning is required, use acetone or xylene, not water or methylated spirits.

Old, existing films can be over-coated providing they're in good condition and there are no adhesion issues. If in doubt, a tensile adhesion test should be conducted.

MIXING

WARNING: For full safety instructions, consult SDS. Wear respirator, goggles and gloves to minimise exposure.

NOTE:

Check packaging for correct product before mixing.

Mix well before use using a clean, dry mixing blade at low speed. If using a pigment pot or matte additive, add the entire contents of the pack and mix at low-medium speed for 60 seconds.

This product is sensitive to moisture. Keep containers closed as much as possible during application. Once an additive is introduced, the material must be used within the specified working time.

APPLICATION

Brush, Roller, Trowel/Squeegee.

Application thickness - 75-150 microns (6-13m²/L).

For best results, pour product immediately onto the floor after mixing. Start 50cm from a wall and work towards the exit point pouring in an "S" shaped pattern.

Leave enough mixed product to cut in with a brush next to vertical surfaces and around tight areas. Approximately 100mm is typical.

Perform a rough spread using the squeegee to achieve a relatively even film, allow product to level for 2-3 minutes, then backroll smooth. For best result, use 6mm x 270mm Mohair roller covers.

De-lint all rollers first by wrapping the roller in masking tape and removing. When backrolling, roll in long, even, overlapping strokes to get the product feeling and sounding the same.

To work a fresh batch into the seam of another, pour the material approximately 15cm from the edge and overlap with the roller by about 30cm. Try to minimise the number of seams and keep them as fresh as possible.

Each kit must be applied within the pot life times listed in the Cure Schedule table to ensure best results.

STORAGE

Keep containers closed when not in use. Store below 40°C. Do not store in direct sunlight. Shelf life is at least 6 months in original, unopened container. Seek advice from your local council regarding accepted disposal methods.

FIRST AID

CAUTION: KEEP OUT OF REACH OF CHILDREN.

IF ON SKIN: Remove immediately all contaminated clothing. Rinse skin with water. **IF IN EYES:** Rinse cautiously with water for several minutes. Immediately call a POISON CENTRE (Australia - 13 11 26) or doctor/physician. If skin irritation occurs: Get medical advice/attention.



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Date of Issue - July 21.