

DATA SHEET

JAXXON 1545

100% Solids, Kevlar®-reinforced, High Chemical Resistance Protective Coating

DESCRIPTION

A solvent-free, two-pack epoxy designed as a heavy-duty protective coating for projects requiring high chemical resistance.

Quality materials are used with Kevlar® fibres to create a high-strength, high-performance coating that provides lasting protection in the most aggressive environments.

Jaxxon 1545 doesn't need a primer on most surfaces, and can be applied onto damp or wet surfaces without amine blushing or adhesion issues. It's also formulated with sag resistance, which means it provides excellent coverage on coving and other vertical surfaces.

USES

Common uses for Jaxxon 1545 include:

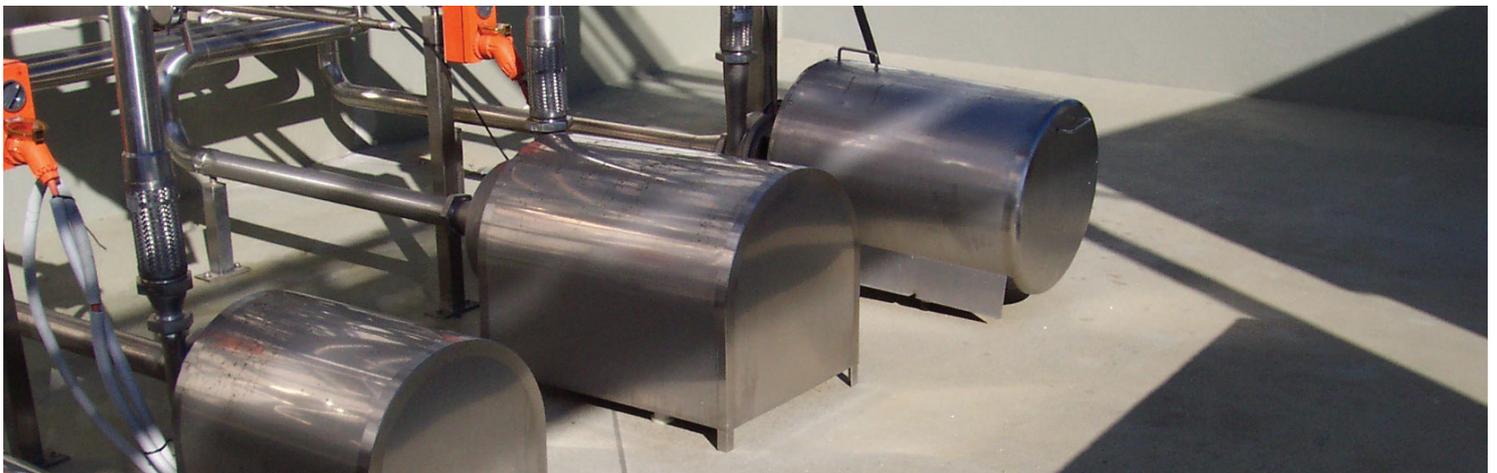
- Tanks
- Chemical Processing
- Wastewater
- Bunds
- Plants/Factories
- Workshops
- Mining
- Loading Zones
- Wet Areas
- Drainage
- Marine Structures

PRODUCT DETAILS

Type:	Two-pack epoxy - solvent-free/100% solids.
Colour:	Grey.
Finish:	Gloss (subtle orange peel texture).
Mix Ratio:	5:3 v:v.
Pack Size:	12 litres.

BENEFITS

- ✓ Proven performance in the toughest conditions.
- ✓ Extreme chemical resistance, e.g. 98% sulphuric acid.
- ✓ Reinforced for higher strength and impact resistance.
- ✓ Can be applied direct to concrete.
- ✓ Can be applied onto damp or even wet surfaces.
- ✓ Excellent adhesion to all common substrates.
- ✓ Can be applied onto vertical surfaces.
- ✓ No solvents or strong odours.
- ✓ Not a Dangerous Good for quicker, easier shipping.
- ✓ Good tolerance of low temperatures.



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PROPERTIES

Adhesion ASTM D451/ISO 4624	Concrete - substrate failure in dry and wet
Hardness ASTM D-2280	76-81 Shore D

CHEMICAL RESISTANCE

10% Acetic Acid	50% Sodium Hydroxide
Bleach	98% Sulphuric Acid
Ethanol	10% Sodium Hypochlorite
Toluene	Xylene
Skydrol	Hydrocarbons/Fuels/Oils
Deionized Water	Trichlorethane

Staining may occur when exposed to aggressive chemicals. Good housekeeping practices, including dilution and spillage clean up, will minimise chemical damage. For full immersion performance, contact supplier.

COVERAGE

The actual coverage achieved by Jaxxon 1545 will depend on the substrate characteristics and condition.

The theoretical yield for a 300-micron film (typical thickness) are:

12 litre kit @ 3.33m²/L = 40m²



CURING TIMES

	Time (@ 25°C)
Pot Life	- 25 minutes
Set (touch)	- 6 hours
Set (hard)	- 12 hours
Re-coat (min.)	- 12 hours
Re-coat (max.)	- 36 hours
Full Cure	- 7 days

- Approximate time frames for full kit @ 25°C.
- Pot life will shorten for larger mixes.
- Curing times will decrease with increasing temperature (+10°C will halve curing times, -10°C will double them).

PRODUCT NOTES

- Jaxxon 1545 should not be used in applications requiring resistance to rapid changes in temperature during service and/or cleaning (i.e. thermal shock).
- Application onto highly porous concrete may lead to film inconsistencies and compromised performance. If required, the concrete should be primed first with a suitable primer.
- Jaxxon 1545 has good sag resistance, which makes it possible to apply onto vertical surfaces such as coving. High film builds and temperatures can should be considered before application.
- Consistent with all epoxies, Jaxxon 1545 will tend to discolour upon extended UV exposure. This doesn't detract from coating performance.
- Minor settling may be experienced in Part A over long periods of time without use. In such cases, mix separately and thoroughly before use.
- In cool conditions, the viscosity of Jaxxon 1545 will increase and may make application difficult. Part A can be slowly warmed with hot water to reduce viscosity before mixing if required. Do not use below 5°C.
- If more than one kit is mixed at a time, the product can reach dangerously high temperatures and experience a significantly reduced pot life.
- Clean up with MEK, acetone or methylated spirits.

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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.

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.

Porous Surfaces:

If the concrete is found to be weak, powdery or porous during substrate preparation, apply a suitable primer/sealer first.

Coated Surfaces:

Maximum delay between coats is 36 hours @ 25°C. Should this time be exceeded the previous coat must be lightly abraded with 80-120 grit paper, vacuumed and wiped with methylated spirits or other suitable solvent.

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.

Metal:

High-pressure water-blasting or abrasive blasting to class 2.4 (AS 1627.4) with a typical profile of 50-70 microns in a jagged pattern. Grinding acceptable for small areas.

MIXING

For full safety instructions, consult SDS. Wear protective clothing, goggles and gloves to prevent skin and eye contact.

NOTE:

Check packaging for correct components before mixing.

Pour Part B into Part A and mix with a drill mixer until a consistent colour is obtained, scraping sides with a flat spatula to ensure all product is taken in.

Jaxxon 1545 kits can be split by using the following weights and volumes to make 1 litre:

To make 1 litre	Part A	Part B
Jaxxon 1545	930g/620mL	400g/380mL

APPLICATION

Brush, Roller, Trowel/Squeegee, Airless Spray.
Application thickness - 200-300 microns (3-5m²/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 using 12mm x 270mm roller covers.

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. If left for too long, pigments can settle and lead to a colour difference.

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

For more information on airless spray application, contact Real World Epoxies.

STORAGE

Keep containers closed when not in use. Store below 40°C. Do not store in direct sunlight. Shelf life is at least 12 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.



Ph: 1300 EPOXIES www.realworldepoxies.com

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