

DATA SHEET

SCUBAPOXY 1715

Kevlar®-reinforced Underwater-applied Coating (Brushable)

DESCRIPTION

A Kevlar®-reinforced, two-pack epoxy designed as a specialist protective coating for underwater, marine and wet-area environments.

Quality materials are used with Kevlar® fibres to create a high-strength, high-performance coating that provides genuine underwater capability and long-term protection.

Scubapoxy 1715 was also formulated in conjunction with commercial divers to be as diver-friendly as possible. The fibre-reinforced, thixotropic nature of the product is not prone to stringing or floating, while the resin-rich, brushable viscosity gives superior tackiness and adhesion compared to traditional "putty" products.

USES

Common uses for Scubapoxy 1715 include:

- Tanks
- Reservoirs
- Pools
- Piers
- pontoons
- Splashzones
- Wet Areas
- Wastewater
- Oil/Gas Pipelines
- Boats & Vessels
- Marine Structures
- Hydroelectricity

PRODUCT DETAILS

Type:	Two-pack epoxy - solvent-free/100% solids.
Colour:	Mid-grey.
Finish:	Gloss (subtle orange peel texture).
Mix Ratio:	1:1 v:v.
Pack Size:	4 litres.

BENEFITS

- ✓ Proven performance in underwater applications.
- ✓ Brushable, diver-friendly formulation.
- ✓ Easy 1:1 by volume mix.
- ✓ Potable water tested.
- ✓ High-build protection on vertical surfaces.
- ✓ Reinforced for greater film strength and cohesion.
- ✓ Excellent chemical resistance, e.g. 70% sulphuric acid.
- ✓ Excellent adhesion to concrete, steel, fibreglass etc.
- ✓ 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 Steel - Wet >2700psi - Dry >2600psi
Hardness ASTM D-2280 JIS K 5600-5-4:1999	80-85 Shore D 4H
Abrasion CS 17/1kg/1000 cycles	77mg/1000 cycles
Potable Water JWWAK 143:2004	Passed all 10 criteria of testing
Cathodic Disbondment AS/NZS 4352:1995	Average Radial Disbondment: 8.3mm - dry, chilled, 20°C cure 2.5mm - wet, chilled, 12°C cure 3.4mm - wet, chilled, 3°C cure

CHEMICAL RESISTANCE

10% Acetic Acid	50% Sodium Hydroxide
Bleach	70% Sulphuric Acid
Ethanol	Xylene
Toluene	Hydrocarbons/Fuels/Oils
Skydrol	10% Lactic Acid
Deionized Water	

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 Scubapoxy 1715 will depend on the substrate characteristics and condition.

The theoretical yields for a 600-micron coating film (recommended) are:

4 litre kit @ 1.67m²/L = 6.67m²



CURING TIMES

	Time (@ 25°C)
Pot Life	- 30 minutes
Set (touch)	- 6 hours
Set (hard)	- 15 hours
Re-coat (min.)	- 15 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

- Some settling may be experienced in Part B over long periods of time without use. In such cases, mix separately and thoroughly before use.
- Scubapoxy 1715 will be difficult to brush at temperatures below 15°C. In this case, it's helpful to pre-warm the components separately in a heat bath before use.
- Scubapoxy 1715 should not be applied in temperatures lower than 5°C.
- Scubapoxy 1715 has thixotropic properties, which give the wet film good sag resistance on vertical surfaces. Thickness should not exceed 1000 microns/1mm when applied at temperatures greater than 25°C.
- Scubapoxy 1715 is compatible with most cathodic protection systems. If possible, test prior to use.
- Consistent with all epoxies, Scubapoxy 1715 will tend to discolour upon extended UV exposure. This doesn't detract from coating performance.
- Clean up with MEK, acetone or methylated spirits.

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SURFACE PREPARATION

Concrete:

Sound surfaces should be well cleaned by high-pressure water/abrasive blasting if possible. Small areas can be cleaned by grinder; not practical for large areas.

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. Can be applied over tight rust. For best results, clean metal surface with a sponge soaked in detergent (sealed in a locked plastic bag if working at depth) immediately before application.

Coated Surfaces:

Can be applied over existing, well-adhered, abraded, clean coatings.

NOTE:

As a minimum in underwater applications, preparation should remove all loose surface contamination and marine growth around the site using an abrasive paper or pad, wire brush etc.

Application should begin within 30 minutes of preparation to avoid re-settling on the surface. If delay is longer than 30 minutes, repeat preparation.

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.

Mix product at a ratio of 1:1 by volume with a drill mixer.

Pour Part B into Part A and mix until a consistent colour is obtained, scraping sides with a flat spatula to ensure all product is taken in. Smaller volumes (less than 1 litre) can be mixed by hand with a stiff spatula or similar instrument

APPLICATION

Brush, Trowel/Spatula, Gloved Hand.

Application thickness - 600-1000 microns (1-1.67m²/L).

If applying underwater, let sit for a moment then work/smear slowly to allow the product to displace the water and "wet" the surface.

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.



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