



TECHNICAL DATA SHEET

ULTRASEAL-1120

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DESCRIPTION

ULTRA SEAL-1120 is a water-clear, low viscosity epoxy resin system designed for coating, doming, marble crack filling, and resin art applications. This solvent-free system offers a high-gloss finish and is formulated to be self-leveling while curing at room temperature (15°C to 32°C). It provides excellent air-release, is optimized for UV stability, and is ideal for a variety of high-performance, clear-coating tasks.

Key Features:

- Water-clear finish: Produces a glossy, transparent layer
- Low viscosity: Easy to apply, self-leveling for a smooth surface
- UV stability: Optimized for extended exposure to UV light
- No solvents: Safe for use in various applications without harmful fumes
- Room temperature curing: Cures effectively at 15°C to 32°C
- Enhanced air-release: Minimizes air bubbles during application

Mixing Ratio:

- By Weight: 50 parts hardener to 100 parts resin
- By Volume: 1 part hardener to 1 part resin
- Note: Do not alter the hardener ratio to control cure time. Room temperature will affect curing characteristics.

Application Instructions:

1 Surface Preparation:

- Ensure the surface to be coated is dry and free of contaminants.
- Use clean, dry containers to measure the correct proportion of resin and hardener.

2 Mixing:

- Pour resin and hardener into a larger container.
- Stir thoroughly for at least 3 minutes, ensuring no air bubbles are introduced.
- Pour the mixture into a second clean container and stir again for an additional 1-2 minutes.
- Avoid stirring too vigorously to minimize air entrapment.

3 Application:

- Apply the mixed resin either by pouring or brushing onto the surface. The resin will self-level to produce a smooth, high-gloss finish.
- For best results, apply between 15°C and 35°C with humidity below 85%.

4 Bubble Removal:

- Use a small heat gun or mini gas torch (keep the flame 100–150mm off the surface) to release any air bubbles during the 30-minute working time.
- Repeat heating as necessary until the surface is bubble-free. Inspect for any lint or debris and remove with tweezers.

5 Curing:

- Allow the resin to cure in a warm (around 25°C), dust-free area.
- Do not thin the resin, as it has been formulated for optimal viscosity for specific applications.

Note: Care should be taken when dispensing and mixing. Do not attempt to control the cure time by altering the hardener ratio. Please note that the room temperature will affect cure characteristics.

Uncured Properties	Clear Coating ULTRASEAL-1120 Epoxy Resin 1120 Part A	Clear Coating Fast Hardener Part B
Physical State	Colourless Liquid	Colourless Liquid
Viscosity mPas @ 25°C	4000 gms	2000 gms
Specific Gravity g/ml @25°C	1	1/2

Cure Characteristics	Clear Coating ULTRASEAL-1120 EPOXY Resin 1120 / Clear Coating Fast Hardener
Pot Life - 100g @ 25°C (in air)	38 minutes
Mix Viscosity mPas @ 25°C	1795
Thin Film Tack Free Time @ 25°C	7 hours
Thin Film Open Time @ 25°C	40 – 60 minutes
Cured to Solid State @ 25°C	24 hours
Glass transition temperature (Tg) 24h@ambient +16h@40°C	41°C
Shore 'D' Hardness 24h@ambient +16h@40°C	76

COVERAGE:

0.6m² per mixed litre of Ultraseal-1120 Mix enough to cover the area, allowing for the flow of resin and drips over the edges.

CLEAN UP

Clean the equipment with Acetone or Isopropyl Alcohol, which can be purchased from Adelaide Moulding & Candle Supplies. Follow safety warnings on solvents, and provide adequate ventilation. Clean epoxy hardener residue with warm soapy water. DO NOT dispose of resin or hardener in a liquid state. Waste resin and hardener can be mixed and cured (in small quantities) to a non-hazardous inert solid.

STORAGE

ULTRASEAL-1120 will keep for 2 years if kept in original containers at room temperature (15°C to 32°C) out of direct sunlight.

Containers should be tightly sealed to prevent moisture absorption and add F 720 Dry-Air Blanket, available from Adelaide Moulding & Candle Supplies.

HEALTH AND SAFETY

Both products have moderate sensitising potential, and should be kept out of the eyes and off the skin.

- Use with good ventilation and adequate safety equipment including impervious gloves and safety glasses.
- If skin contact occurs, remove contaminated clothing immediately, and wash the affected area thoroughly with water, avoiding the use of solvents except in the case of massive contamination.
- If eye contact occurs, immediately flush with running water for at least 15 (fifteen) minutes and seek medical advice.
- Do not eat, drink or smoke when using this product.

If swallowed:

- **ULTRASEAL-1120 Epoxy Resins** - DO NOT induce vomiting, and contact a doctor or the Poisons Information Centre.
- **ULTRASEAL-1120 Epoxy Hardeners** - DO NOT induce vomiting, give plenty of milk or water and contact a doctor or the Poisons Information Centre.

PACKAGING: 1.5Kg | 4.2Kg (Carton 6 + 6)

TECHNICAL SUPPORT

Manufactured By Industrial 9-Warehouse, Behind Shirawi Enterprise, Ras Al Khor Industrial Area 2, Dubai, UAE

India Facility: 1025/1/A, Babla Compound, Gaibi Nagar, Kalyan Road, Bhiwandi, Maharashtra – 421302

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