460EP INTEPOXY TECHNICAL DATA SHEET

Solvent-based lacquer formulated on tough UV resistant acrylic resins. It exhibits excellent dry film properties including hot tyre resistance, oil resistance and is UV stabilised for superior exterior durability.

PROPERTIES

Item	Detail
Colours	Can be tinted to most colours.
Thinning/Clean Up	101UT-1002 Universal Thinner.
Drying time	Tack free 4 hrs. Recoat 12 hours (depending on conditions and film build).
Exterior exposure	Not recommended unless sealed with UV resistant topcoat
Sealer Type	Two component Epoxy Topcoat
Part A (Intepoxy)	4 Lt, 16Lt
Part B (Hardener)	1 Lt, 4Lt
Gloss level	50% 60° angle
Coverage	5–7 m^2/L (depending on substrate porosity).
Chemical Resistance	Excellent
Abrasion Resistance	Excellent
Hot Tire Resistance	Excellent

TYPICAL USES

Concrete sealer for driveways, car parks, footpaths, and most concrete and masonry substrates. Durable film forming sealer for preventing dirt retention on concrete surfaces. Not ideal for use on natural stone where a penetrating, non-film forming sealer is recommended.

LIMITATIONS

- Do not apply to wet or damp substrates. Excessive moisture may cause loss of gloss, poor cure, reduced chemical/abrasion resistance and delamination.
- Not suitable where rising damp, negative hydrostatic pressure or persistent efflorescence is present (Rectify moisture source first, check for moisture using the **Plastic Sheet Moisture test**.)
- Avoid excessive film builds. Heavy builds may crack and can become slippery when wet.
- Always complete a test patch to confirm appearance, adhesion, and slip performance.

ENVIRONMENTAL CONDITIONS RECOMMENDATIONS

- Apply at ambient temperature above 15°C – 35°C.
- Apply at relative humidity below 80%.
- Avoid application within 12 hours before impending rain.
  Ensure surface is completely dry before applying.

EQUIPMENT

- Spray (fine nozzle)
- Brush
- Roller (solvent resistant enamel type)

PLASTIC SHEET MOISTURE TEST

Tape a plastic sheet (45 × 45 cm) onto the concrete surface being tested, ensuring an airtight seal is formed (repeat over several areas of the slab). After 24 hours, remove the plastic sheet and check for moisture. The test patch must be free of moisture, condensation, or darkening compared to surrounding concrete. If any moisture is present, allow a further 14 days drying and repeat the test. Persistent signs of moisture indicate there may by Hydrostatic Pressure issues and a professional (plumber) should be called in to investigate. Coating can only proceed when underlying water problem has been eliminated.

PREPARATION

– NEW UN-SEALED MASONRY/BRICKWORK/CONCRETE/PAVERS

1. Ensure surface is free from powdery or loose concrete and surface contaminants such as oil, dust, dirt, grease, or concrete release agents.
2. Check for Hydrostatic pressure issues such as signs of persistent dampness on walls/floor, leaching of white powdery salts (efflorescence) these are all indicative of Hydrostatic Pressure caused poor drainage or leaking plumbing. Failure to rectify will cause delamination, test surface as per **Plastic Sheet Moisture** method. **Do not proceed coating until all underlying Hydrostatic pressure issues have been eliminated.**
3. Scrub down with a 10% solution of hydrochloric acid, then thoroughly rinse all residues off with water. Allow surface to thoroughly dry before applying any coating.
   Wear appropriate PPE and ensure adequate ventilation when handling acids and solvents. Refer to the current SDS before use.

– PREVIOUSLY SEALED SURFACES

1. Delamination, flaking, blistering, or bubbling of old paint may be a sign of underlying issues such as Hydrostatic Pressure, surface contamination (silicone, grease, oil, PVA glue, previously incompatible coatings). Failure to address and rectify these issues by coating over them will continue to result in delamination.
2. Ensure any loose or flaky coating is removed by mechanical sanding or wire brush. Wash off any signs of surface contaminants such as grease, oil, dirt, etc.
3. Address any signs of dampness, efflorescence, or water damage. Test affected areas with the **Plastic Sheet Moisture Test.** **Once all Hydrostatic pressure issues have been eliminated, proceed to next step.**
4. Pre-test existing surface for any reaction such as lifting, wrinkling or adhesion issues by applying Intepoxy onto an obscure area approx. 30cm x 30cm. If any reaction of the coated surface is immediate such as wrinkling, lifting, blistering, **do not proceed with sealing.**
5. Remove old coating using Aqualis **StripEase (follow data sheet guidelines),** or alternatively, sand blast or grind off back to raw concrete using a mechanical grinder. Ensure all chemical, paint and dust residues are thoroughly removed and proceed coating as per-**NEW UN-SEALED CONCRETE.**
6. If no reaction is evident, check adhesion after 24 hrs. drying by scratching a straight line on the sealed surface with a blunt end of a knife.
7. If sealer flakes, delaminates or peels away from the scratch, **do not proceed with sealing.** Follow steps as per point 5.
8. If sealer leaves a straight edge with no fraying or lifting, you may proceed with sealing.

APPLICATION PROCEDURE

1. Apply Intepoxy by Spray, brush or roller and allow to dry 12 hours.
2. Apply a second coat of Intepoxy as per Step 1 and allow to dry overnight.

Note: Heavier coats will require longer recoat times. Avoid excessive film builds as this can lead to cracking and/or slippery surfaces when wet.

SLIP RATING AND ANTI-SLIP ADDITIVE

It is recommended that a polymeric anti-slip agent be used on sloping surfaces and around areas prone to water exposure such as swimming pools and spas.

HORIZONTAL SURFACES

For flat surfaces around swimming pools, light foot traffic areas etc., add Fine Anti-Slip at 300 g per 20 L to achieve P4 wet slip rating, as per AS/NZS 4586:2013. Extreme care should always be taken when walking on wet surfaces, especially around swimming pools. Fine Anti-Slip will leave a low-profile grit finish.

SLOPING SURFACES, RAMPS, STAIRS, OR HIGH FOOT TRAFFIC AREAS

Add Coarse Anti-Slip at 300 g per 20 L to achieve P5 wet slip rating, as per AS/NZS 4586:2013. Coarse Anti-Slip leaves a higher-profile grit finish and hence increased slip resistance.

Recoat recommendation is approximately every 12 to 18 months but is at the discretion of the customer as each application is case-by-case. Anti-slip media does wear away and may require attention to ensure the full slip rating is maintained.

ADDING ANTI-SLIP

- Add anti-slip polymer by volume to Acryseal. Normal recommendation is 1 L (approx. 300 g) anti-slip to 20 L of sealer.
- Add anti-slip polymer to the sealer directly and ensure thorough hand mixing at the time of application.
- Regularly stir the sealer/anti-slip mixture in the drum, especially before pouring into a paint tray, to ensure uniformity.
- If required, higher levels of anti-slip may be added either directly into the sealer or hand broadcast evenly over the wet sealed surface.
- If sealer is stored for long periods with anti-slip already incorporated, ensure adequate mechanical agitation prior to application.

METAL

– LOW CHROMIUM FERROUS METAL (MILD STEEL, CARBON STEEL, CAST IRON)

SURFACE PREPARATION

Prepare surfaces in accordance with AS1627.1 and AS1627.4 Class 2.5 with a blast profile of 40–70 microns.

1. Ensure surface is free from dirt and grease or metal scale.
2. Round off all welds and sharp edges. Grind off any weld spatter and remove grease, oil, and other contaminants in accordance with AS1627.1. Prepare metal surface by mechanical sanding or abrasive blast clean to a minimum of AS1627.4 Class 2.5 with a blast profile of 40 – 70 micron. Remove all dust or contaminants by brushing or vacuum cleaning.
3. Solvent wipe using approved Wax and Grease Remover (101WG).
4. Mix 4 parts **460EP INTEPOXY** with 1-part **460HD Hardener** by volume and stir well. Allow induction time of 15 min before remixing and applying.
5. Spray apply **460EP INTEPOXY** to achieve a Dry Film Build (dft.) of 75 – 100-micron and allow 12 hours cure.
6. Repeat steps 4. and 5. to achieve a final primed film build of 150 – 200-micron dft.

- **NON-FERROUS METAL (GALVANISED STEEL, ALUMINIUM, STAINLESS STEEL, ZINCALUME, ZINC RICH PRIMED SURFACES)**

SURFACE PREPARATION

Fresh galvanised steel should be allowed to weather for a minimum of 40 days before coating. Never abrade off the oxidized zinc layer.

1. Ensure surface is free from dirt and grease. Clean by brushing off dirt and grime then solvent wiping using **101WG Wax and Grease Remover** do not abrade the surface.
2. Prime with **120EP Etch Primer**. (Follow data sheet recommendations).
3. Mix 4 parts **460EP INTEPOXY** with 1-part **460HD Hardene**r by volume and stir well.
4. Spray apply **460EP INTEPOXY** to achieve a primed Dry Film Build (dft.) of 90 – 120-micron and allow 12 hours cure.
5. Sand with fine wet/dry grit paper and repeat steps 3. and 4. achieving a final primed film build of 180 – 240-micron dft.

HAZARDS TO AVOID

- When dry, high film builds may result in slippery surfaces, especially when wet or in the presence of rain.
- Heavy coats will require longer recoat times and may increase sensitivity to moisture and solvent entrapment.
- Take care when applying. Walking on freshly sealed surfaces is a slip hazard. Wear appropriate safety footwear.

STORAGE AND HANDLING

- Store in original sealed containers in a cool, dry, well-ventilated area.
- Protect from extreme temperatures and direct sunlight.
- Stir thoroughly before use.

SAFETY INFORMATION

Flammable liquid. Always refer to the current Safety Data Sheet (SDS) before handling or applying this product. Appropriate personal protective equipment must be used during application.

DISCLAIMER AND LIABILITY

All information provided is based on current knowledge and is given in good faith. Product performance depends on correct surface preparation, application methods, substrate condition, and site conditions, which are beyond the control of Intec Coatings Pty Ltd. No warranty or guarantee, express or implied, is given regarding performance in any specific application. The user is responsible for determining product suitability and for ensuring application is carried out in accordance with this Technical Data Sheet and relevant standards. To the maximum extent permitted by law, Intec Coatings Pty Ltd accepts no liability for loss or damage arising from the use or misuse of this product. Nothing in this disclaimer excludes rights available under the Australian Consumer Law.

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