

1. DESCRIPTION

IMPA POLY EPOXY GLOSS FINISH is a unique high performance two component polyurethane finish coat with excellent resistance to abrasion, moisture, petroleum solvents and mineral and vegetable oils, alkalis and acids. The most unusual feature of **IMPA POLY EPOXY GLOSS FINISH** is that, unlike most other classes of high performance coatings, it looks as good as it protects. The **sophisticated combination of IMPA POLY EPOXY GLOSS FINISH** reactive acrylic resins gives a system unsurpassed for gloss and colour retention.

2. PRODUCT FEATURES

- Suitable for contact with potable water.
- A high gloss finishes with excellent non-yellowing characteristics, gloss retention, toughness and durability.
- It has a very good chemical resistance properties and is normally used in a system over **IMPA POLY EPOXY UNDERCOAT**
- Excellent adhesion on correctly prepared surfaces.
- Good resistance to mechanical damage and abrasion.
- If fully cured it offers outstanding resistance to a wide range of industrial chemicals.
- Seamless and hygienic
- Available in range of colours
- Excellent protective qualities
- Can be used on a variety of substrates
- Gloss finish, easy to clean
- UV resistant: Can be used as exterior coating
- Outperforms conventional decorative coating
- Chemical resistant: Withstands diluted acids, alkalis and solvents.
- Excellent **flow** and **leveling** properties

3. LIMITATIONS

- Not recommended as a tank lining
- In early stage of curing, film may be susceptible to mechanical damage
- Not recommended for direct application to zinc rich primers, such as inorganic zinc silicate

4. SURFACE PREPARATION

- All surfaces must be clean, dry, and free from oil, grease or any contaminants **MILD STEEL**

HIGH PERFORMANCE FINISHES

IMPA POLY EPOXY GLOSS FINISH

ISSUED DATE: JUNE 2014, REV1

TECHNICAL DATA

<i>Product Code</i>	EP902
<i>Colour</i>	White, Clear & Standard Colours Activator: Pale Translucent
<i>Pot Life</i>	45 min @23°C
<i>Appearance</i>	High Gloss
<i>Shelf life</i>	24 Months
<i>Packaging</i>	1L&5L
<i>Flashpoint</i>	41°C

<i>Viscosity</i>	Mixed: 65– 70Ku/23°C
<i>S.G (weight)</i>	1.21– 1.22kg/l
<i>Solids per volume</i>	58-60%
<i>Solids per mass</i>	47-49%

<i>Practical Spreading rate (depending on porosity)</i>	10-12m ² /L per coat @ 35µm DFT
<i>Recommended finishing coats.</i>	2 minimum

DRYING TIME

<i>Touch dry time</i>	4-5 Hours at 23°C
<i>Recoating Time</i>	16 Hours at 23°C
<i>Full Cure</i>	4 – 7 Days

APPLICATION

<i>Roller & Brush (Mohair preferred)</i>	Ready for use
<i>Mixing Ratio</i>	1BASE: 1 Activator by Volume

<i>Cleaning</i>	IMPA PU Thinners
<i>Mixing</i>	IMPA PU Thinners if needed

- All surfaces to be painted should be thoroughly degreased using **AQUASOLVE DEGREASER** followed by fresh water rinses.
- Abrasive blast cleans to Grade Sa 2½ of the ISO 8501-1:1988 with a blast profile not exceeding 50µm or prepare steel mechanically so that the surface has a pronounced metallic sheen (Grade St3).
- Mechanical cleaning is not as effective as abrasive blasting and results in a shorter maintenance-free life.
- Apply 1 coat of **IMPA POLY EPOXY UNDERCOAT** followed by 1 **IMPA POLY EPOXY GLOSS FINISH**.
- GALVANISED STEEL**
 - Clean with **GALVANISED IRON CLEANER** to achieve water break-free surface and rinse thoroughly with water.
 - Abrade lightly with 400 grit paper and dust off.
 - Then apply **IMPA POLY EPOXY UNDERCOAT** followed by **IMPA POLY EPOXY GLOSS FINISH**
- ALUMINIUM**
 - Degrease with **RESTORE HEAVY DUTY DEGREASER** and rinse thoroughly with water.
 - Abrade with 220 grit sandpaper to provide a key and dust off.
 - Then apply **IMPA POLY EPOXY UNDERCOAT** followed by **IMPA POLY EPOXY**
- FIBRE-GLASS**
 - Remove oil/wax with **IMPA LACQUER THINNER**.
 - Sandpaper to matt surface with 220 grit paper and wipe down again with **IMPA LACQUER THINNER** Apply **IMPA POLY EPOXY GLOSS FINISH**.
- WOOD**
 - Must be clean and well sanded.
 - For a pigmented finish, (apply 1 coat of **IMPA POLY EPOXY UNDERCOAT**.)
 - For a clear finish no undercoat is required.
- CEMENT OR CONCRETE**
 - Ensure that the surface is completely dry, firm, and free from dirt and grease.
 - Then apply **IMPA POLY EPOXY UNDERCOAT** and follow with **IMPA POLY EPOXY GLOSS FINISH**

5. MIXING

- Stir the base component well with a flat- bottomed paddle or mechanical mixer until product is uniform. Continue stirring and add the entire contents of the activator container. Continue stirring until the mixture is homogeneous.

6. APPLICATION

Brush: Apply uniform, even coating with high quality brushes.

Rollers: Apply uniform, even coating with short pile rollers.

Airless Spray: Pump ratio – 30 to 1 Min
Nozzle Orifice – 13 to 15 Thou
Tip Pressure – 145 Bar Min

Conventional Spray:

Air Assisted Airless
Pressure Pot – Pressure Feed Gun
Gravity Feed Gun
Various Nozzle sets are available to suit guns

7. PRECAUTIONS

In order to limit minor colour variations from batch to batch, it is advisable to use product from the same batch on large open areas. Batches may be factory blended on request.

- Application should be avoided in cold and moist weather conditions.
- **Do Not** apply the product at surface temperatures below 6°C (minimum of 2°C above dew point) and temperatures above 40°C
- **Do Not** apply if ambient temperature is less than 10°C or more than 40°C.
- **Do Not** apply if relative humidity temperature is less than 10°C or more than 85. °C
- Extremely cold conditions will make the drying time longer.
- Paint in area where there is good ventilation.
- Ensure that recommended mixing ratio is adhered to
- Discard any mixed material left over from the previous day
- **HARDENER** reacts readily with moisture. **Do not** expose to high humidity. Keep containers tightly sealed when not in use.
- **HARDENER** contains isocyanate – use suitable respirator, particularly during spray application of the mixed material.

Environmental Health & Safety Information

DANGER! CONTAINS SULFAMIC ACID. CAN BURN EYES AND SKIN. SEVERELY HARMFUL IF SWALLOWED. HARMFUL IF INHALED. AVOID BREATHING IN DUST, MIST OR VAPORS. USE ONLY IN A WELL VENTILATED AREA. MAY CAUSE COUGHING, WHEEZING, THROAT IRRITATION, SHORTNESS OF BREATH, HEADACHE, NAUSEA OR VOMITING. DO NOT MIX CONTENTS WITH CHLORINE BLEACH OR ANY OTHER CLEANING PRODUCT OR DETERGENT. TO DO SO MAY EXPOSE YOU TO DANGEROUS GASES. MIX ONLY IN PLASTIC CONTAINERS.

Wear protective clothing, eyegoggles and acid resistant rubber gloves and footwear. Avoid contact with eyes and skin. **FIRST AID: If Swallowed:** Do not induce vomiting. Have victim drink lots of milk or water if conscious. Get medical attention immediately! **Eye and Skin Contact:** Flush immediately with plenty of water for at least 15 minutes; spread eyelids and occasionally flush underneath them. **Get medical attention immediately!** Remove contaminated clothing and shoes immediately. Wash contaminated clothing before reuse. If experiencing Respiratory Discomfort (e.g., throat irritation, coughing, wheezing): Remove victim to fresh air. Get medical attention immediately!

CAUTION: KEEP OUT OF REACH OF CHILDREN AND ANIMALS - DO NOT TAKE INTERNALLY.

Refer to Material Safety Data Sheet for additional health and safety information.

IN CASE OF FIRE: Use foam, CO₂, dry chemical, or water fog.

SPILL – Absorb with inert material and dispose of as specified under Thinning/Clean-up.

DISCLAIMER

The technical information contained in this document are given in good faith and are meant to be used as a guideline by the specifier or user. Whilst we are confident about the quality of our products, we cannot accept any liability for the incorrect use or application of our products. Surface preparation forms an integral part of the scope of works and it is expected that the highest standards are maintained during surface preparation and application, to ensure that our products perform as intended. Always ensure to use the same product batch numbers, refrain from doing spot touch-ups and paint surfaces from corner to corner to prevent colour and sheen variance. As technology may change over time we reserve the right to change products to keep up with changes in raw materials or product trends without pre notice. Although we will always prevail to keep clients informed about changes to be made, but cannot bind ourselves to such notes Please ensure the use of the latest Technical Data Sheet.

Please note: that all our latest Product Data Sheets and Material Safety Data Sheets are available for viewing on our website at www.impa.co.za. All information listed is owned or used under licence of Impa Paints and its related companies. © 2010 Lurama 149 (Pty) Ltd. All rights is reserved.