

## 1. DESCRIPTION

**Tuff Floor Clear Sealer** is a two-component solvent-borne, polyamine-cured epoxy clear sealer for prepared walls and floors.

**Tuff Floor Clear Sealer** is a sealer for porous cementitious substrates. **Tuff Floor Clear Sealer** may also be used as a clear sealer coat for other Impa Products as indicated on their specific data sheets.

Can be used as a high quality "bonding liquid" for weak plaster on walls prior to skimming and painting.

## 2. PRODUCT ADVANTAGES

- Good sealing characteristics
- Excellent abrasion resistance.
- Easy to apply
- Non-toxic when cured
- Fast drying time
- Quick return to service
- Can be brushed, rolled or sprayed
- Low viscosity formulation allows excellent penetration of concrete substrates
- Good through curing - strengthens top surface of screed
- Excellent sealer for machine abraded floors
- Excellent adhesion to substrate & subsequent coats
- Excellent **flow** and **leveling** properties

## 3. SURFACE PREPARATION

### CONCRETE AND ALL CEMENT BASES SELF LEVELLING

**SCREEDS** – Surfaces must be clean and mechanically sound and free of laitance, nibs, dust, grease and oil. Wet abrasive grinding is generally used on concrete floors. Any holes imperfections should be patch with **Impa Epoxy Grout**. Concrete substrate must have a minimum tensile strength of 1.5N/mm<sup>2</sup>. This should be left overnight to cure and shall then be rendered smooth. For a smooth final finish, the surface profile, peak to valley, should not exceed 25% of the coating thickness. If the surface is very irregular, consideration should be given to the use of **Impa Epoxy Self Levelling Primer**.

## HIGH PERFORMANCE FINISHES

### TUFF FLOOR CLEAR SEALER

ISSUED DATE: JUNE 2014 REV 1

## TECHNICAL DATA

Product Code Colour	EP504 Base & EP503 Activator Base: Clear Activator: Pale Translucent
Pot Life Appearance Shelf life Packaging Flashpoint	2 Hours @23°C Gloss 24 Months 1L & 5L 26 °C
Viscosity S.G (weight) Solids per volume Solids per mass	90– 95KU/23°C 1.00 – 1.02 kg/l 60– 61% 56 – 57%
Practical Spreading rate (depending on porosity) Recommended finishing coats.	10m <sup>2</sup> /L per coat @ 25µm DFT 2 Minimum
<b>DRYING TIME</b>  Touch dry time Recoating Time Full Cure	  2-3 Hours at 23°C 16-48 Hours at 23°C 7Days
<b>APPLICATION</b> Roller & Brush Mixing Ratio	Ready for use 4 Base: 1 Activator by Volume
Cleaning Mixing	IMPA Epoxy Thinners IMPA Epoxy Thinners if needed

## 4. LIMITATIONS

- Not recommended for direct immersion in water
  - Not recommended for contact with strong acids and alkalis
  - Epoxy based – will chalk when exposed to direct sunlight
  - The product will discolour after long exposure to sunlight
  - Maximum service temperature, dry 120°C and immersion 70°C
  - Cannot be used beyond the prescribed pot life.
  - Do not use on glass or unprepared glossy surfaces – porous surfaces only
- Cementitious substrates only:**
- The substrate must be dry before applications Electronic moisture content test must be conducted prior to application of the priming system. Maximum moisture 4-5% max. (e.g. Protimeter Survey Master or equivalent) Or (A practical overnight “plastic sheet test” is also advisable approx. 1m<sup>2</sup> masked down on surface).
  - **If used, the type of cementitious Self -Levelling Screed must be tested for suitability before application under Impa Tuff Floor Sealer. All criteria listed above for surface suitability must comply with the requirements laid down above when choosing a Self-Levelling Screed Type. Should there be doubt as to the make or type of product contact the manufacturer of the screed for further advice.**

## 5. MIXING

- Stir the contents of each container. Add activator to base and stir together for at least five minutes using a flat paddle. It has been found that mechanical mixing gives better dispersion than manual mixing. A suitable mixing method would be a slow-speed electric drill (approximately 200 rpm) fitted with a paddle.
- The mixed material must be left to stand (“cook”) for 5 minutes prior to application.
- If only part of a kit is to be used add (1) volumes of activator to (4) volumes of base. Measuring must be accurate and separate stirrers and containers used for proportioning each component.

## 6. PRIMING

**Impa Tuff Floor Sealer/Primer must be used as primer and this application must be thinned down by using 10% by volume of Impa Epoxy Thinners before application.**

Over coating of the primer with **Impa Tuff Floor Clear Sealer** should comply with the over coating time requirements laid down for the specific product. The over coating time **Impa Tuff Floor Clear Sealer** is minimum 16 and maximum 48 hours.

## 7. APPLICATION

**Tuff Floor Clear Sealer** may be applied by brush, short-fibre roller or airless spray. Spraying would be through a tip of approximately 250 µm. Provide adequate ventilation during application and ensure that there are no sources of ignition in the vicinity. All over-coating times must be strictly adhered to. **Impa Tuff Floor Sealer** will not cure if applied at below 10°C

## 8. PRECAUTIONS

- 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 drying time longer
- Paint in area where there is good ventilations
- Do not smoke while painting
- Use only recommended thinner
- Discard any mixed material left over from the previous day

### Environmental Health & Safety Information

**DANGER! CORROSIVE! WILL CAUSE EYE BURNS AND PERMANENT TISSUE DAMAGE.**

**HARMFUL IF SWALLOWED. CONTAINS POTASSIUM HYDROXIDE. AVOID CONTACT WITH SKIN.**

May cause permanent skin damage and severe respiratory system irritation. Use with adequate ventilation. Wear protective clothing, acid resistant rubber gloves and eye goggles. Avoid breathing spray mist. If properly used, a respirator may offer additional protection. **FIRST AID:** Eye and skin contact: In case of eye or skin contact, flush immediately with water for 20 minutes. Get medical attention if irritation or symptoms of overexposure persist. If inhaled, move to fresh air. If swallowed, DO NOT induce vomiting. Get medical attention immediately. Give water to dilute material in stomach. Never give anything by mouth to an unconscious person.

**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, CO<sub>2</sub>, 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.*

*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](http://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 reserved.*