

1. DESCRIPTION

IMPA AQUAFLEX is a durable Pure Acrylic Waterproofing Coating and is a high build coating with very low dirt pickup.

IMPA AQUAFLEX is characterised by having outstanding waterproofing, long term durability, UV resistance, excellent adhesion, local flexibility, exceptional water resistance and low dirt retention.

IMPA AQUAFLEX has been tested to and complies with the requirements of the Artificial Rain Penetration Test (SABS 0400:1990)

IMPA AQUAFLEX is a 5-layer system fabric reinforced waterproofing system is designed to overcome unevenness of roof surface by the building up of waterproofing membrane thickness.

IMPA AQUAFLEX system's is suitable for positive waterproofing of concrete flat roofs in areas with light foot traffic is entertained.

2. USES

- **IMPA AQUAFLEX** is a versatile waterproofing system.
- It will waterproof galvanized, tile, asbestos, cement, wood and concrete roofs.
- The product can be used on both new and previously painted stable surfaces.
- **IMPA AQUAFLEX** is a highly durable waterproofing and weatherproofing coating which is totally tack-free in the dry cured film state.
- **IMPA AQUAFLEX** is ideal for both coastal and inland structures.

3. FEATURES

- Excellent waterproofing properties and a very low water absorption after prolonged immersion in water.
- Excellent weather and ultra-violet resistance.
- Will withstand movement of the substrate by exhibiting elongation and extensibility and will not harden or crack.
- Resistance to Alkaline and Acidic atmospheres.
- Excellent adhesion to all suitably prepared substrates.
- Very little or no maintenance required, depending on the amount of traffic.
- Lower installation cost since waterborne roof compounds are easily applied by brush, roller or squeegee.
- Excellent resistance to salt spray, mould and fungus
- **Impa Mouldtech™** antibacterial, fungal and algae protection

SPECIALISED PURPOSE FINISHES

IMPA AQUAFLEX

ISSUED DATE: JUNE 2014, REV 1

TECHNICAL DATA

<i>Product Code</i>	WA1017
<i>Colour</i>	Black, Red, Brown, White and Grey (Other colours on special order)
<i>Appearance</i>	Low sheen
<i>Shelf life</i>	12 Months
<i>Packaging</i>	1L, 5L, & 20L
<i>Flashpoint</i>	Non flammable

<i>Viscosity</i>	115 – 125KU/ 23°C
<i>Specific weight</i>	1,22 – 1,24kg/l
<i>Solids per volume</i>	45 – 46%
<i>Solids per mass</i>	54 – 55%
<i>VOC</i>	

<i>Recommended finishing coats.</i>	See application
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DRYING TIME

<i>Touch dry time</i>	1 Hour at 23°C
<i>Recoating Time</i>	8 Hours at 23°C
<i>Hard Dry</i>	24 Hours
<i>Full Cure</i>	4-7 Days

APPLICATION

<i>Roller & brush</i>	Ready for use
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<i>Cleaning</i> <i>Mixing</i>	Hot water and soap Stir until homogeneous Stir occasionally during use
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4. RECOMMENDED PRIMER

- See surface substrate conditions.

5. TYPICAL PHYSICAL PROPERTIES

QUV Accelerated Weathering:1000 hours	No Cracking Grey Scale No 4
Fire Resistance	
Spread of flame index Smoke evolved index	Zero 4
Adhesion Strength (ASTM D4541:93)	>0.5N/mm ²
Crack Bridging (ASTM C836:89)	>2mm
Crack Bridging - after 10 cycles of weathering closing to a width of 1mm. (ASTM C836:89)	Passed
Hardness Shore A (ASTM D2240:91)	70
Tensile Strength (ASTM D412:92)	>7.5 N/mm ² (incl. fibre glass) 2.1 N/mm ² (excl. fibre glass)
Elongation at Break (ASTM D412:92)	458%
Thickness of membrane: For roof - 5 layers system For wall - 3 coats	1.5 to 2mm 0.7 to 0.9mm

5. PREPARATION OF SURFACES

- Surfaces must be clean, sound, dry and suitably primed.
- Remove grease and oil.
- Abrade painted surfaces to ensure adhesion
- Remove any chalky material and wire-brush concrete to free loose particles.
- All surface contamination should be removed before application can commence
- New concrete must be cured for at least 28 Days
- Sufficient falls must be provided to avoid ponding of water
- Old coatings must be stable if not remove completely

6. TYPICAL SUBSTRATE TYPES

- New & Existing Metal roofs : Wire brush or sand blasting
- Joints : Wire brush or abrasive blasting
- Timber surface : Dry and free from oil and residue
- New & Existing roof tiles/ Brickwork : Water or jet blasting
- Fibreglass : Water or jet blasting
- New & Existing concrete : Water or jet blasting

7. COVERAGE

Approx. 10m² per 20L for 1 coat at dry film thickness of 250µm

8. SUBSTRATE CONDITION

- Substrate must be clean, dry and sound for painting. **Moisture content** must be **below 14% WME**, measured using a PROTIMETER (or equally approved).

NEW WORK

CONCRETE ,CEMENTPLASTER AND FIBRE CEMENT

- Prime with **IMPA HYDROPRIME AR PLASTER PRIMER** as supplied to seal the surface. Allow 12 hours to dry.

CLAY TILE SURFACE

- These surfaces may have a powdery layer present due to age. **RENO WB BONDING LIQUID** is recommended to treat these surfaces and to increase the spreading rate of **IMPA AQUAFLEX**. Pre-wetting with clean water will assist application.

GALVANISED IRON

- Galvanised iron surfaces must be cleaned with **RESTORE GALVANIZED IRON CLEANER** in accordance with product data sheet. Ensure to obtain a water break-free surface. If the area are situated in the coastal region or are known for humid conditions, then apply one coat **IMPA NOVA ETCH PRIMER** and allow 4 hours drying.

CHROMADEK

- Wash down with **RESTORE HEAVY DUTY DEGREASER**. Allow drying and apply directly.

FIBREGLASS

- Prime with **IMPA PREP 5.1 PRIMER** as supplied. Allow 12 hours to dry.

PREVIOUSLY PAINTED SURFACES

BAD CONDITION - CEMENT AND ASBESTOS

- Remove all flaking and chalking paint by high pressure water jet at 300kPa. If algae is present, treat these areas with **RESTORE MOSS & MOULD KILLER** in accordance with product data sheet. Prepare and prime all exposed metal roof screws with **IMPA MP5 PRIMER**. Apply a full coat of **IMPA HYDROPRIME AR PLASTER PRIMER** as supplied or **IMPA NOVA SB AR PLASTER PRIMER** (For friable/chalky surfaces; dilute **NOVA SB AR PLASTER PRIMER** up to maximum 10% with **RESTORE TURPENTINE**). Allow 12 hours to cure.

BAD CONDITION – GALVANISED IRON , FIBREGLASS AND CHROMADEK

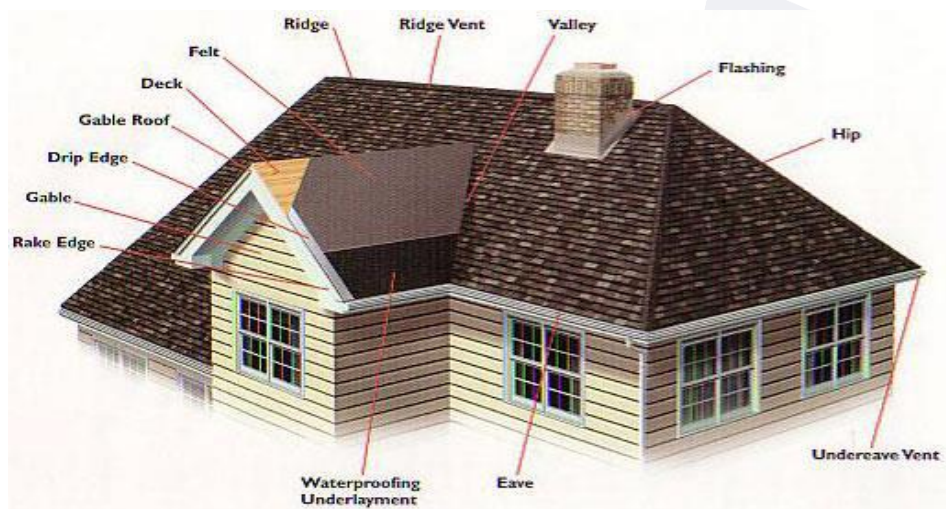
- Apply **RESTORE HEAVY DUTY DEGREASER** to lift atmospheric pollution. Remove all flaking and chalking paint by high pressure water jet at 300kPa. If algae is present, treat these areas with **RESTORE MOSS & MOULD KILLER** in accordance with product data sheet. Sand all rusted areas to ISO 850101:1988 – St 3 to attain a bright metal finish before application. Spot prime all bare sanded metal areas using one liberal coat **IMPA MP5 PRIMER** and allow 12 hours drying.
- Apply one full primer coat of **IMPA NOVA ETCH PRIMER** and allow 4 hours drying.

BAD CONDITION – FIBREGLASS

- Apply **RESTORE HEAVY DUTY DEGREASER** to lift atmospheric pollution. Remove all flaking and chalking paint by high pressure water jet at 300kPa. If algae is present, treat these areas with **RESTORE MOSS & MOULD KILLER** in accordance with product data sheet.
- Apply one full primer coat of **IMPA PREP 5.1 PRIMER** and allow 12 hours drying.

GOOD CONDITION

1. Surfaces in good sound condition should be high pressure washed at 180kPa after applying **RESTORE HEAVY DUTY DEGREASER** or a solution of **RESTORE SUGAR SOAP** before applying **SABRE ACRYLIC ROOF PAINT** directly.

9. APPLICATION GUIDES

First coat (after priming)

Apply an even coat of **IMPA AQUAFLEX** Waterproofing Compound at a rate of 1L/m² undiluted with a brush or roller. While the compound is wet, embed a **Impa Restore reinforcing membrane** (non-woven polypropylene) and ensure that the membrane is completely saturated. The minimum weight of the membrane alone shall be 100g/m². Product should be evident "striking through" the membrane and if this is not the case, too little product has been applied. Care should be taken that all bubbles and wrinkles are smoothed out. After allowing a minimum drying period of 8 hours, apply a second coat **Impa Aquaflex** at the rate of 0.75L/m². Allow a minimum of 8 hours drying period. Apply a further final coat of **Impa Aquaflex** at the rate of 0.75L/m². Allow at least 8 hours drying time. Side laps of 75mm and end laps of 100mm must be allowed. It will be noted that a total of 2.5L/m² of **Impa Aquaflex** has now been applied. . The total weight per m² shall therefore be 1.5kg. Note drying times are based on a temperature of 23°C and a R.H. of 60% max. Technical assistance and applicator training are freely available to all approved users

10. PRECAUTIONS

- It is absolutely essential to ensure total drying between coats.
- 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
- Thinning down is not recommended (except as a primer), but in extreme cases a slight addition of water can be made.
- Not suitable for permanent immersion in water.
- New concrete should be allowed to age for 2 – 3 weeks before over coating.
- **Impa Restore membrane** must be used.

- Do not apply if rain is imminent.
- Do not cover with stones or stone chippings.

Environmental Health & Safety Information

WARNING! IRRITANT! HARMFUL IF SWALLOWED. CONTAINS: PROPYLENE ORETHYLENE GLYCOL. MAY CAUSE EYE, NOSE AND THROAT IRRITATION. AVOID CONTACT WITH SKIN AND EYES AND AVOID BREATHING OF VAPORS AND SPRAY MIST. WEAR EYE PROTECTION AND PROTECTIVE CLOTHING. USE ONLY WITH ADEQUATE VENTILATION. To avoid breathing vapours and spray mist, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches or dizziness, increase fresh air. If properly used, a respirator (NIOSH approved for organic vapor with P series particulate pre-filter) may offer additional protection; obtain professional advice before using. A dust mask does not provide protection against vapors. Avoid contact with eyes and skin. Wash thoroughly after handling. Close container after each use. **FIRST AID:** If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If swallowed, 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**.

† **WARNING!** If you scrape, sand or remove old paint, you may release lead dust.

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 strive 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 reserved.