



ISO 9001:2008 Certified Company  
 "TIME TESTED PRODUCTS"  
 SINCE 1972

### The Polymeric/ Elastomeric Water Proof Liquid Membrane

**Zahabiya Water Shield ZSAC-10/55** is an acrylic copolymer based, one component **Liquid Membrane/ Coating exceptionally suitable for the waterproofing and isolation of variety of building materials.** In construction field, this product finds many utilities as a seamless, water proof, vapour barrier, weather resistant & anti-fungus coating for the waterproofing and protection of coated surfaces from the harmful atmospheric effects such as concrete roofs, slabs, underground & overhead tanks, reservoirs & swimming pools, bathroom sunks, basements, below grade constructions, wooden planks, MDF sheets etc. Economical and long lasting, the coating does not fade or change over years, performing better than conventional exterior paints.

- Cold, Hot & Boiling Water Proof; Oil Proof.
- Non-Flammable, Non-Toxic, Non-Hazardous, Non-Corrosive & Non-Rusting.
- A "**Human Friendly / Environmentally Acceptable**" Product.
- Highly Flexible, Non-Cracking & Non-Magnetic Coating.
- Acid, Alkali, Micro Organisms, Fungus & Mildew Resistant. Non-Biodegradable.
- Reinforces the concrete/ brickwork, increasing strength up to 20%.
- Protects and guards concrete from chlorination and carbonation effects.
- Prevents decay/ erosion of plastered surfaces.
- High UV, Temperature and Weather resistance provide years of intact aesthetic appearance.
- Reflects sun rays cutting down direct atmospheric heat up to 30% (in white colour).
- Non-Sticky to Walk & Abrasion Resistant; **TRAFFICABLE** for pedestrian use.
- Penetrates, seals & coats all masonry & porous surfaces becoming their integrated part.
- Patches up minute cracks & pores. Also capable to accommodate minor cracks & movements.
- Ideal for damaged old roofs as it does not increase the dead load on the roof due to its low density and required thickness,
- Usable in applications where the relative humidity exceeds 90% for continuous periods and vapour barrier protection is required, as an ultimate waterproof & weather resistant protective seal (e.g. in HVAC Industry).



**COLOUR:**

**ODOUR:**

**VISCOSITY:**

**SOLID CONTENTS:**

**DENSITY:**

**HARDNESS:**

**ELONGATION AT BREAK:**

**TENSILE STRENGTH:**

**ELONGATION RECOVERY:**

**TEAR STRENGTH:**

**ADHESION:**

**FLEXIBILITY:**

**FUNGAL RESISTANCE:**

**VAPOUR PERMEABILITY:**

**WATER ABSORPTION:**

**SERVICE TEMPERATURE:**

**DRYING:**

**COVERAGE:**

**APPLICATION:**

**DILUENT:**

**STORAGE:**

Light Grey, White, Light Blue, Terracotta & Brick Red etc. Other colours available on bulk order.

Slight ammoniac smell. Odour free once cured [ASTM D1833].

2000-2100cP at 100RPM, Spindle 03, at 25°C [ASTM D2556].

Around 63% w/w [ASTM D2369].

Around 1.2 to 1.3 kg/litre at 25°C [ASTM D1475].

47 Shore A [ASTM D2248]. H900 leaves the film uncut, not-rupture or scratch [ASTM D3363].

**Initial**

430%

1.37MPa

At 25% Elongation: 100%; At Break: 60%.

7.3kN/m [ASTM D624].

On Concrete: >25kN/m [ASTM D903].

No cracks on bending around 12.6mm Mandrel at 30°C [ASTM D522].

Rated zero "0" (no growth) for Aspergillus Niger and Penicillium pinophilum [ASTM G21].

48 SI perms (water vapour transmission) [ASTM D1653].

24 hours:

72 hours:

168 hours:

**1000 Hours UV Exposure (Xenon Arc Method) [ASTM D4798]**

410% [ASTM D2370]

1.26MPa [ASTM D2370]

2.8%

5.0%

7.8% (7 days).

Substrate Temperature: 6 to 65°C. The cured film resists temperature from -40 to 200°C.

Air-drying. Dries at room temperature and cures further with time. [ASTM D1640]

Surface Dry: 10 minutes

Tack Free Dry: 25 minutes

Hard Dry: 30 minutes

Re-coatability: 6-8 hours at 30°C and 65% RH.

The curing continues up to 48 hours improving the water proofing properties & strength.

70-75 ft<sup>2</sup>/kg/coat on average, depending on surface smoothness, porosity & application method.

**ONE COMPONENT, COLD APPLIED & READY TO USE LIQUID MEMBRANE.** Applied by soft smooth brush, roller or mechanical spray. Apply 4 coats to get the best anti-fungus, waterproof protective membrane.

Avoid dilution to prevent fungal growth particularly when using as '**Anti-Fungus Vapour Barrier Paint**'. Use potable water for dilution, if necessary. Clean dried film with solvent naphtha or methylated spirit.

Store the compound at a well-ventilated place between 25-30°C, away from the direct source of heat or sun. Mix well before every use to ensure uniform application. Useable best up to 18 months from the manufacturing date, provided stored air-tight in the original containers.



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#### APPLICATIONS:

**Zahabiya Water Shield (Sealing Adhesive Coat) ZSAC-10/55** has excellent adhesion, water proofing & insulation properties and may be applied with advantages on:

- Cement, Concrete, Under Screed & R.C.C.
- Textiles, Canvas & Cloth Wrappings.
- Chip Board, Hard Board, Wooden Planks etc.
- Plinth and Sub Soil Level Structures.
- G.I. Concrete, Asbestos or Fibre Glass Roofing Sheets; EPS/ XPS & PU Foam Insulations.
- Water, Waste, Dilute Acids/ Alkalis Drains.
- Underground, Over Head Tanks and Water Reservoirs/ Canals, Swimming Pools etc.
- Flower Beds & Roof Gardens.
- As '**Best Exterior Paint**' for buildings, boundary walls, basements, roof tops or areas subject to high humidity and abnormal climatic changes e.g. coastal areas, as the best defence against wind driven rain and other weather hazards.
- It is ideally suited for old and damaged roof surfaces, with or without **Zahabiya Polymeric Canvas** which serves as **best non-bituminised felt/ membrane**, as it does not increase the dead load on the roof due to its low density and required thickness.

### WATER PROOFING & PROTECTION WITH ZAHABIYA WATER SHIELD ZSAC-10/55 (An Ideal and Trusted Heat & U/V Resistant Protective Liquid Membrane)

The following procedure is suggested for solving water leakage/ seepage problems effectively and economically especially for concrete roofs, slabs and water tanks & reservoirs, utilising latest polymers technology, which is time tested and best to our knowledge and experience.

1. Completely remove any Bituminous or **Asphalt based** coating, if present.
2. Clean the entire surface manually, mechanically or chemically to remove any loose particles.
3. Apply by brush, **FIRST** primer coat after diluting **Water Shield ZSAC-10/55** with 10% potable water for highly porous and 5% for less porous surfaces. For non-porous surface such as metallic or asbestos sheets, use as supplied.
4. Fill the surface cracks if present with **Zahabiya Soft Seal Special ZSP-1191**. Refer TDS for details.
5. Apply **SECOND, THIRD & FOURTH** coat of undiluted Water Shield ZSAC-10/55, maintaining the interval of 6 to 8 hours between the coats.

#### OPTIONAL

##### 6. Pasting of 10 Oz. Zahabiya POLYMERIC CANVAS:

Zahabiya Polymeric Canvas i.e. a normal 10 Oz. raw un-starched canvas cloth both sides properly coated by undiluted **Zahabiya Water Shield ZSAC-10/55** is especially usable on old damaged roofs where fresh screeding is avoided due to cost, time and weight factors. Pasting of "Polymeric Canvas" is also recommended at those exposed to atmosphere areas where temperature variations are very high and ranges between 0°C to about 60°C. The pasting of Canvas is to be immediately done after THIRD rich coat, taking care that no air pockets are left inside and minimum of 3" overlap is maintained at all joints. Apply FOURTH COAT on this pasted canvas after 6 hours, sealing the overlap joints.

7. After 12 hours of 4th coat, **one final undiluted coat** of ZSAC-10/55 is evenly applied for perfection of job, providing high insulation value & cutting down heat transfer from the roof top appreciably.

#### Note:

- Leakage detection test must be carried out after a period of minimum 3 days air-drying after the final coat.
- After water proofing of water tanks, pools & reservoirs, first charge of the filled water is not advisable for drinking purpose and must be drained off after 2-3 days of storage. Once the water is drained, allow the coating to dry for a couple of days, after which the tank is ready to be used for drinking water storage and use.

**Flame Retardant Grade Zahabiya FRC-10/60 is also available for Critical Applications with Water Proofing Properties.**

**IMPORTANT: PLEASE CONSULT US TO OBTAIN BEST RESULTS ON ALL JOBS, ESPECIALLY WATER TANKS/BASEMENTS SEALING.**

#### IMPORTANT NOTICE:

The Information & Data contained herein are correct to the best of our knowledge, tests and experience. These are presented in good faith to the users. The recommendations and suggestions mentioned are made without guarantees or representations as to the results. The Consumer should satisfy himself as to the suitability of the product for the intended purpose and use. WE ASSUME NO LIABILITY for damages of any kind and the user accepts the product 'as is' and without any other warranties, expressed or implied. Our warranty is limited to the replacement of so proved defective Zahabiya original sealed product only, provided used within shelf life as supplied originally.

