

ARKSEAL W

Liquid-applied polyurethane waterproofing membrane



DESCRIPTION

ARKSEAL W is a solvent based liquid-applied highly permanent elastic, cold applied and cold curing, one component polyurethane membrane used for long-lasting waterproofing. **ARKSEAL W** is based on pure elastomeric hydrophobic polyurethane resins, which result in excellent mechanical, chemical, thermal and natural element resistance properties, and it cures by reaction with ground and air moisture.

USAGES

- Waterproofing of wet areas such as:
- Bathrooms, kitchens, balconies, and auxiliary rooms
- Basements, tunnels, subways, and culverts
- Inverted roofs, suspended slabs, balconies
- Tanking systems
- Other similar applications

STANDARDS

ARKSEAL W is formulated to comply with all requirements of:

- ASTM C836/CB36
- ASTM C147/C1417M-05 (2014) e1
- ASTM C898/898M-2009

TECHNICAL DATA

ARKSEAL W

Typical values

Appearance	Grey liquid
Tensile Strength (ASTM D 412)	4 N/mm ²
Elongation @break (ASTM D 412)	400%
Water Vapor Permeability	25 gr/m ² /day
Resistance to Water Pressure (1m water column) (DIN EN1928)	No leak (24h)
Shore A Hardness (ASTM D2240)	65
Adhesion to Concrete (ASTM D903)	2.0N/mm ²
Service Temperature	-35 - 90°C
Tack Free Time	8 hours
Foot Traffic Time	24 hours
Final Curing Time	7 days
Hydrolysis (5% KOH, 7 days cycle)	No significant change

ADVANTAGES

- Simple application (roller or airless spray)
- When applied; forms seamless membrane without joints
- Resistant to water & frost
- Crack-bridging.
- Provides water vapor permeability, so the surface can breathe.
- Provides excellent thermal resistance, it never turns soft
- Maintain its mechanical properties over a temperature span of -30°C to +90°C
- Excellent adhesion to almost any type of surfaces.
- Waterproofed surfaces can be walked on
- Resistant to detergent, oils, seawater and domestic chemicals
- Even if the membrane gets mechanically damaged, it can be easily repaired locally within minutes
- Does not need the use of open flames (torch) during application
- No low-cost bitumen extenders present in the product
- Over 15 years of positive feedback worldwide

USAGE INSTRUCTIONS

1. Surface preparation

All substrates shall be sound, clean, free from dust, grease & oil.

Concrete floors should have compressive strength not less than 25 MPa. and if new concrete floor, it must be over 28 days old before applying any resin-based product.

Any cracks or grooves should be filled using **PIOMORTAR FC** before priming if needed.

2. Priming

Usually priming is not required, however, if the surface is highly porous or dusty it is recommended to apply a coat of **PIOPRIME 62**.

ARKSEAL W	Coverage
PIOPRIME 62	9m ² /liter/100μ
ARKSEAL W	1.2-1.5 kg/m ²

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish a practical estimation to material consumption.

3. Application

Stir well before using. Pour **ARKSEAL W** onto the primed/prepared surface and lay it out by roller or brush, until all surface is covered. After 12-18 hours (not later than 48 hours) apply another layer of **ARKSEAL W**. For demanding applications, apply a third layer of **ARKSEAL W**.

If **ARKSEAL W** is to be covered with ceramic tiles, fully saturate with oven-dry silica sand (corn-size 0.4mm-0.8mm) the last layer while still wet. This saturation will create an adhesion bridge to the tile adhesive that will follow.

4. Cleaning

Clean all tools and application equipment with a suitable thinner immediately after use.

Hardened or cured material can only be removed mechanically.

PACKAGING

ARKSEAL W is supplied in 25 kg metal pail.

HEALTH & SAFETY

Before applying **ARKSEAL W**, all safety protections should be worn during application, such as safety goggles and rubber gloves to avoid any harmful accidents.

If **ARKSEAL W** is splashed to skin, it must be washed off by water and soap at once, and if to the eyes seek medical attention immediately.

STORAGE & SHELF LIFE

ARKSEAL W shall be stored in its sealed container under dry and shaded place in a temperature from 5°C -35 °C, shelf life of the material is 12-months.

CHEMICAL RESISTANCE

ARKSEAL W	Resistance
Acidic solutions	Good
Alkali solutions	Good
Detergents	Very good
Seawater	Very good
Oils	Very good

TECHNICAL SERVICE

The technical service department of Arkaz is available to assist in the correct and best use of our products, these resources and advice are at your disposal entirely without obligation. Please contact us via our website arkaz.com

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