

# ZOLVTEK Prime D-41

## Solvent-Based Bitumen Primer

**ZOLVTEK PRIMER is a solvent based, full bodied black Bitumen paint. It is used as a surface dressing to masonry, concrete and metallic surfaces or to improve the bond of bituminous materials to the substrate. When dry, the product forms an odourless and taint free Bitumen film suitable for the protection of metals, concrete roofing, felt, fibre cement, corrugated iron, Bitumen and wood against water attack. A single component elastomeric waterproofing membrane with high elasticity and low water r permeability. It is particularly suitable for a wide range of applications including wet areas, swimming pools, foundations, basements, terraces, retaining walls, bridge abutments, planters, inverted roofs and remedial repairs to felt, Bitumen, concrete, fibrous cement or other roof structures when protected from exposure to direct sunlight. ZOLVTEK PRIMER is a tough waterproofing system based on modified Bitumen, co-polymers and a carrier solvent. It is highly resistant to aggressive soils and soluble salts providing an effective continuous barrier and protection against water borne damage. ZOLVTEK PRIMER is ideally suited as a vapor/salt barrier to building facades behind granite, marble, stone cladding and curtain wall elements.**



## APPLICATION

- It is used as a PRIMER and sealer coat prior to the application of Bitumen based waterproofing membranes and coatings. This can also be used as a curing compound on freshly cast concrete.
- Easy to apply as a protective coating and curing membrane, on concrete, masonry and resist, attack by, sulphates. Chlorides and many other moisture and atmospheric borne pollutants.
- It has excellent bonding properties. The flexible and waterproofing characteristics make it suitable for use as a crack sealer.
  - It is excellent water based bituminous PRIMER for use in roofing and fully compatible with most of the roofing substances.
  - Used as PRIMER coat on concrete masonry, cementations screeds, renders, metallic substrates etc. prior to application or installation of bituminous materials, built up roofing, bituminous sheet membranes etc.

## FEATURES AND BENEFITS

Bitumen Primer D-41 is ready for use and should not be thinned. Apply by brush or spray. A minimum of two coats of Bitumen Paint should be applied, the first been allowed to dry (normally 2-4 hours depending on weather conditions) before the second is applied.

### DRINKING WATER TANKS

Surfaces should be dry and free of mill scale, rust and dirt. All surfaces should be degreased immediately prior to coating. Brush application is preferred to ensure that all recesses, edges, rivet, and bolt heads and nuts are coated thoroughly. Drying may be assisted by the provision of a forced air draught.

A three coat system is suggested for the internal treatment of drinking water tanks. Apply 3 coats, normally allowing a 24 hours drying period between coats. It is important that the first coat is thoroughly dry before application of the second coat.

Use clean, uncontaminated application equipment. After the third coat has dried thoroughly allow at least seven days for the coating to set. Before the tank is put into service it should be filled with cold drinking water and drained after not less than 4 hours. If a taste is detected in this water, the flushing should be repeated. The paint is not suitable for hot water tanks.

- Do not use in areas where subsequent solvent contact is likely.
- Avoid inhalation of vapours in confined spaces.
- Bitumen Paint may bleed through any paints subsequently applied over it. Apply a PRIMER recommended by the paint manufacturer before over painting.
- Allow sufficient drying time between coats.

## PROTECTIVE COATING ON CONCRETE

Since concrete and some stone surfaces may be porous, an initial PRIMER coat of D-41 Bitumen PRIMERR should be applied.

- Excellent adhesion and self healing properties.
- Excellent penetration.
- Compatible with all bituminous products.
- Anti corrosive coating.

## SURFACE PREPARATION

- As with all surface coatings preparation of the surface is of great importance and will influence the degree of adhesion obtained and the life of the coating. All surfaces must be sound stable and thoroughly clean and dry. Metal surfaces should be wire brushed to remove rust. Where long term protection is required an initial treatment of a rust inhibitive product such as red lead or zinc phosphate should be used. Loose or blistered paint should be removed as should tar based paint systems. New galvanized surfaces should be roughened with a wire brush or treated with a proprietary etch prime. Porous surfaces should be primed with D-41 Bitumen PRIMER.
- All substrates must be sound, clean, dry, smooth and free from protrusions, voids, honey-combs and high spots. Presence of curing agents, paint and oil will impair adhesion.
- Moss and lichen must be removed and area treated with proprietary fungicidal wash to kill spores and inhibit further growth. Wash the area thoroughly with clean water and allow drying. Fillets must be provided at corners or sharp angles using 4:1 sand and cement mortar, modified with a good quality bonding agent.
- Priming is normally not required on good quality, well prepared substrates.
- Cracks: All shrinkage and non-structural cracks must be treated with not less than 1.5 mm coating of ZOLVTEK PRIMER extending 75mm either side of the crack. Allow to cure overnight prior to general application.
- ZOLVTEK PRIMER should be applied by brush to obtain a continuous unbroken film.
- Two coats are required with the second coat applied at the right angles after the first coat has cured.
- ZOLVTEK PRIMER must be protected from mechanical damage during subsequent construction of backfilling works.
- Any damage may be repaired by a spot application.
- If a water flood test is run, the membrane should cure for a minimum of days.
- Whilst ZOLVTEK PRIMER is resistant to frost, adhesion will be impaired if applied to frosted substrates. Application should be avoided if substrate temperatures are below 5°C or rain is imminent.

## FEATURES AND BENEFITS

- Liquid applied, thereby reducing detail problems
- No Joints
- High build properties ensure rapid application
- High elasticity, ensuring a permanent flexible barrier over a wide range of temperatures.
- Thermal stability
- Excellent adhesion can be applied to a range of substrates.
- Outstanding resistance to oxidation and brittleness.
- Fast Drying
- Suitable for use with portable drinking water tanks

## HEALTH AND SAFETY

ZOLVTEK PRIMER D41 should not come in contact with skin, eyes or be swallowed. Glasses, goggles and protective clothing should be worn during application.

## PACKING AND STORAGE

ZOLVTEK PRIMER D41 is available in 15kg pail and 180 kg drums palletized and strapped. Shelf life is one (1) year in original unopened pails and should be stored in warehouse conditions away from direct sunlight and frost.

## TECHNICAL DATA

PROPERTIES	SPECIFICATION
Color	Dark Brown Liquid drying to Black
Form	One Component
Specific gravity, li/kg @ 25°C	0.92-1.1000
Tensile Strength	2.5 N/mm <sup>2</sup>
Elongation at Break	900%
Curing Time	24 hrs approx.
Crack Bridging	Up to 2 mm
Distillate up to 225°C	Vol. % ≥35
Water, Volume %	0.5 max
Solubility of Residue in TEC	≥99%
Drying time	Less than 4 hours in atmospheric conditions
Solvent Type	Petroleum Solvent

---

# al safi

Chemicals Industries LLC

الصافي للصناعات الكيماوية ذ.م.م

Tel: +971 6 564 2030, PO Box: 35354  
Sharjah, United Arab Emirates  
info@zolvtek.com

[www.zolvtek.com](http://www.zolvtek.com)

*Manufacturers of:*

- Bitumen emulsions and primers
- App & SBS modified membranes
- Self adhesive membranes
- Roofing felts
- Construction chemicals
- Road bitumens