

TECHNICAL DATA SHEET



POLYURETHANE MDI BASED ONE COMPONENT WATER PROOFING ELASTOMER

PRODUCT DESCRIPTION

A Highly elastic one component MDI based polyurethane coating ,provides the most efficient method for water proofing and protection. Can be applied to virtually any substrate.

It reacts with humidity in the atmosphere to produce a seamless elastic membrane with very good adhesion to any surface , very good mechanical properties and resistant to weather conditions.

USES

- Water proofing and protection of roofs.
- Water proofing and protection of terraces and balconies.
- Water proofing and protection of bathrooms.
- Protection of Polyurethane Spray Foam.

RECOMMENDATIONS

- Two coats are recommended, consumption should be minimum of 1 kg per square meter per coat.
- For deep colours e.g. RED , GREY, GREEN it is recommended to use the grey colour **V-Pol**® and paint the required colour with Elastopol Protect® (which is an aliphatic based lacquer that gives additional protection to **V-Pol**®).
- For inclined surfaces **V-Pol T**® can be used which is a thixotropic grade.
- In cold weather conditions under 10°C or in case of expected rain , **V-Pol Cat**® Can be used 5-10% , to promote faster curing.

FEATURES (ADVANTAGES)

V-Pol® is a one component , liquid applied polyurethane seamless membranes , which does not contain TDI or coal tar pitch derivatives and is therefore not classified as hazardous.

V-Pol® cures to a permanently flexible membrane with food adhesion to a wide range of

Substrates, including concrete, tiles, brick, glass and metals.

V-Pol® is water vapour permeable and can also bridge cracks and is very easy to repair.

APPLICATION

Good preparation of the substrate is necessary for food adhesion and excellent finish.

1. Remove all loose material.

2. Old coatings, grease, fungal growth must be removed with the aid of a mechanical brush.

3. The surface must be thoroughly dry.

4. Fill cracks and voids with **V-seal®**.

5. Prime surface with 1k 4435, 150-250 gr/m² depending on the substrate, after 2-4 hours and not later than 48 hours, overcoat with **V-Pol®**. Re-prime if over coating is not possible within this time.

6. Apply **V-Pol I®** in two layers of 0,7 -1,0kg/m². The first layer must be touch dry after 24 -48 hours, depending on weather conditions. before the second layer is applied.

7. Aromatic hydrocarbon solvent must be used to clean equipment.

8. Damage to **V-Pol®** can be repaired by removing any loose membrane, cleaning the surrounding area with solvent, priming with *Primer 1k 4435* and finishing with two coats of **V-Pol®**.

9. If higher mechanical properties are required we can reinforce **V-Pol®** with geotextile.

Geotextile is also recommended for application on inclined surfaces, as it prevents **V-Pol®** from running.

10. **V-Pol®** can be also applied by airless spray. In this case thin down the material with the addition of 5 -20% of aromatic hydrocarbon solvent.

11. If additional protection is required from weather conditions and UV rays, cover the area with one coat of **V-Pol Protect®** at the required colour.

STORAGE

Store in a cool place indoors, the material must be protected from moisture and stored at a temperature of 5°C -25°C. Once opened the material should be used as soon as possible.

HEALTH AND SAFETY

The recommendations made in our MSDS should be followed always.

- Inflammable.
- No smoking.
- Keep away from ignition sources.
- Keep out of reach of children.
- Ensure good ventilation during application.
- Do not breathe vapour/spray.
- Avoid prolonged skin contact –wear suitable protective clothing and gloves.

TECHNICAL SPECIFICATIONS

Density at 20 ° C	1,3 -1,4 gr/m ³
Extension at break	400-500%
Hardness	60±10 Shore A.
Tension at break	5,0±0,5 N/mm ²
Good chemical resistance to light acid and alkali solutions , detergents e.t.c.	

COLOURS AND PACKING

V-Pol® is delivered in 20kg ,5kg and 1 kg metal canisters.

Colours available white ,light grey , oxy-red ,green. Other colours available depending on quantity and delivery time.

®=Registered trade mark Viopol

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