

VEL PROOF

WATERPROOFING,
BONDING &
REPAIR

SINGLE-COMPONENT
ELASTOMERIC WATERPROOF
COATING



A DURABLE WATERPROOF BARRIER WITH EXCELLENT ADHESION



ELASTOMERIC
MEMBRANE



TEMPERATURE
PROOF



LEAKAGE
PROOF



RAIN
PROOF



MULTI-PURPOSE



LOW VOC

DESCRIPTION

VEL-PROOF is a premium-grade, single-component elastomeric waterproof coating developed by Velwiin Chemicals for long-lasting protection of roofs and exposed concrete surfaces. The ready-to-use formulation forms a seamless, flexible membrane that effectively prevents water ingress while accommodating normal structural movement caused by thermal expansion and contraction.

Once cured, VEL-PROOF creates a durable waterproof barrier with excellent adhesion to cementitious and metal substrates. Its UV-resistant formulation helps protect the coated surface from weathering, making it suitable for both new construction and refurbishment projects. The coating can be applied easily using a brush, roller, or airless spray equipment without the need for dilution.

VEL-PROOF is recommended for waterproofing terraces, flat roofs, sloping roofs, balconies, metal roofing sheets, and other exposed surfaces where reliable moisture protection and long service life are required.

FEATURES AND ADVANTAGES

VEL-PROOF is engineered to provide durable waterproofing performance with excellent flexibility and weather resistance.

- Ready-to-use, single-component waterproof coating.
- Forms a seamless elastomeric membrane after curing.
- Provides reliable protection against rainwater seepage and moisture penetration.
- Excellent flexibility to accommodate normal structural movement and thermal expansion.

- Strong adhesion to concrete, cement plaster, brickwork, and metal roofing surfaces.
- Superior resistance to ultraviolet (UV) exposure and outdoor weathering.
- Helps reduce heat absorption by reflecting sunlight from the coated surface.
- Suitable for both horizontal and vertical waterproofing applications.
- Can be applied easily using a brush, roller, or spray equipment.
- No dilution required before application.
- Long-lasting protective coating with low maintenance requirements.
- Suitable for exposed roof applications without the need for an additional protective coating under light foot traffic.
- Cost-effective solution for both new construction and renovation projects.

RECOMMENDED APPLICATIONS / AREAS OF USE

VEL-PROOF is designed to protect a wide range of building surfaces from water ingress and weather-related deterioration. It is suitable for both new construction projects and renovation works.

Recommended Applications

- Flat Roof Waterproofing
- Terrace Waterproofing
- Sloping Roofs
- RCC Roof Slabs
- Cement Sheet Roofs
- Metal Roof Structures
- Balconies and Podiums
- Parapet Walls
- Sunshades and Chajjas
- External Concrete Surfaces
- Existing Waterproofed Surfaces
- Repair and Refurbishment Projects

Suitable for:

VEL-PROOF can be applied on properly prepared:

- Cement Concrete
- Cement Plaster
- RCC Roof Slabs
- Brick Masonry
- Cement Screeds
- Fibre Cement Sheets
- Metal Roofing Sheets
- Previously Waterproofed Surfaces (after inspection and necessary repairs)

Typical Uses

- Waterproofing exposed terraces and rooftops.
- Protecting roofs from rainwater leakage and seepage.
- Waterproofing old and new concrete surfaces.
- Restoring weathered roof coatings through recoating.
- Providing a flexible waterproof membrane for structures exposed to sunlight and seasonal temperature changes.
- Suitable for residential, commercial, and industrial buildings.

TECHNICAL INFORMATION

Property	Specification
Product Type	Single-Component Elastomeric Waterproof Coating
Appearance	Smooth Thixotropic Paste
Colour	White
Solid Content	65 ± 2 %
Elongation at Break	300%
Tensile Strength	2.0 N/mm ²
UV Resistance	Excellent
Water Permeability	Negligible / Almost Nil
Application Method	Brush, Roller or Airless Spray
Dilution	Ready to Use – No Dilution Required

PERFORMANCE CHARACTERISTICS

- Forms a seamless, flexible waterproof membrane after curing.
- Accommodates minor structural movement caused by expansion and contraction.
- Provides excellent resistance against UV exposure and weathering.
- Effectively prevents water penetration through roof surfaces.
- Offers strong adhesion to properly prepared cementitious and metal substrates.
- Maintains flexibility even after prolonged outdoor exposure.
- Suitable for long-term roof waterproofing applications.
- Can remain exposed to sunlight without requiring an additional protective coating under light foot traffic conditions.

Note: The values shown above are typical product characteristics obtained under controlled testing conditions. Actual performance may vary depending on substrate condition, application thickness, curing environment, and site practices.

SURFACE PREPARATION & APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Proper surface preparation is essential for achieving optimum waterproofing performance.

- Ensure the substrate is clean, sound, and free from dust, oil, grease, laitance, loose particles, moss, or any other contaminants.
- Open and repair all cracks, construction joints, and damaged areas using a suitable polymer-modified repair mortar or crack repair compound.
- Seal drain outlets, pipe penetrations, and other critical junctions before starting the waterproofing application.
- Remove all weak, hollow, or delaminated portions of the existing surface and repair them with an appropriate repair mortar.
- Verify that the roof has adequate drainage. Correct any water-ponding areas by providing the required slope before applying the coating.
- Highly porous substrates should be primed with a suitable compatible primer before application.

APPLICATION PROCEDURE

- Stir VEL-PROOF thoroughly until a smooth and uniform consistency is obtained.
- Apply the first coat evenly using a brush, roller, or airless spray without adding water or any thinner.
- Allow the first coat to dry for approximately 6–7 hours, depending on ambient temperature and humidity. Apply the second coat at right angles (crosswise) to the first coat to ensure complete and uniform coverage.
- For terraces, expansion joints, cracks, or high-stress areas, reinforce the system with fiberglass mesh or non-woven fabric embedded between the two coats wherever required.
- Allow the completed coating system to cure for a minimum of 7 days before exposing it to continuous water or heavy service conditions.
- The recommended dry film thickness (DFT) after completion should be approximately 1.0–1.2 mm.

Application Recommendations

Apply only in dry weather conditions. Do not dilute the product before application. Additional coats may be applied where higher protection is required. The cured coating can remain exposed to sunlight and is suitable for light foot traffic. If recoating is required after prolonged exposure, clean the surface thoroughly before applying a fresh maintenance coat.

COVERAGE, PACKAGING, STORAGE, SAFETY

Coverage

The coverage of VEL-PROOF depends on the surface condition, porosity, application method, and final dry film thickness.

Application System	Approximate Coverage
Two-Coat Waterproofing System	12–15 sq.ft./kg

Note: Actual material consumption may vary depending on substrate roughness, absorbency, and application technique.

PACKAGING

VEL-PROOF is available in the following standard pack sizes:

- 1 kg | 5 kg | 10 kg | 20 kg

Other pack sizes may be available on request.

SHELF LIFE

- 12 months from the date of manufacture.
- Store the product in its original unopened container under recommended storage conditions.

STORAGE

- Store in a cool, dry, and well-ventilated place.
- Keep containers tightly sealed when not in use.
- Protect the product from direct sunlight, excessive heat, and freezing conditions.
- Stir the material thoroughly before use if stored for an extended period.

HEALTH & SAFETY

- Avoid direct contact with skin and eyes.
- Wear suitable gloves, safety goggles, and protective clothing during application.
- Use appropriate respiratory protection where ventilation is inadequate.
- In case of eye contact, rinse immediately with plenty of clean water and seek medical attention.
- Keep out of reach of children.
- Dispose of empty containers and waste material in accordance with local regulations.

DISCLAIMER

The information provided in this Technical Data Sheet is based on laboratory evaluations and practical field experience. Actual product performance depends on substrate condition, application method, workmanship, curing conditions, and environmental factors, all of which are beyond the control of Velwiin Chemicals. Users are advised to verify the suitability of VEL-PROOF for the intended application before use. Velwiin Chemicals reserves the right to modify product specifications without prior notice as part of its continuous product improvement program.

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