

HYDRAGUARD BASE

Polyurethane Waterproofing Membrane for Non-Exposed Areas

DESCRIPTION

HYDRAGUARD Base is a single pack, liquid applied, moisturecuring, self levelling, waterproofing membrane which cures to form a seamless, tough, durable, elastomeric (class 3) waterproofing membrane. HYDRAGUARD bonds well to most suitably primed building substrates and is suitable for above and below ground applications.

Colour: Grey.

HYDRAGUARD Base meets the 'Green Star' environmental criteria.

USES

HYDRAGUARD Base is designed to waterproof most non-exposed applications within the building and construction industry including:

Tiled or Covered Areas: Shower recess & wet areas (floors and upturns), decks, balconies, terraces, podiums, retaining walls, planters & landscaped areas, structural slabs, tanks, pits and bunding areas.

SUITABLE SURFACES

HYDRAGUARD Base is suitable for most building substrates including: Concrete · Cement · Cement Render · FC and CFC Sheeting · Render · Brick · Block work · Plaster Board · Masonry · Bitumen (when primed with VIKIN GP PRIMER) · Metal · Timber, Particle Board and Plywood (when primed with VIKIN GP PRIMER).

Surfaces must be made good and should be sound, stable, dry, clean and free of dirt, dust and contaminants and suitably primed.

SPECIFICATION

The information contained in this product data sheet is typical, but does not constitute a full specification as conditions and specific requirements may vary from project to project. The instructions should be considered as a minimum requirement, but the applicator or contractor must use their skill, knowledge and experience to carry out additional works as may be necessary to meet the

requirements of the project. Specification for specific projects should be sought from the company in writing.

LIMITATIONS

Not designed for applications exposed to sunlight.

BENEFITS AND ADVANTAGES

HYDRAGUARD Base represents the highest standards in polyurethane waterproofing technology and provides the following benefits and advantages:

- Single pack - no mixing
- Fast curing within 24 hours
- Meets the 'Green Star' environmental criteria
- Permanently flexible (tests show flexibility > 500% - Class 3 [highest class of extensibility])
- Will not stain tiles or grout - as HYDRAGUARD is tar and bitumen free
- Self levelling and seamless membrane (no joints or laps)
- Suitable for immersion in water
- Can be directly tiled (broadcasting of sand into final wet coat is recommended)
- Good chemical resistance
- High strength and puncture resistant
- Easily repaired and or maintained
- Odourless (subjective) when cured
- Formulated to provide long term protection
- Easy to apply
- Has good hydrostatic resistance
- Long history of Australian use

PRECAUTIONS IN USE

Risk is considered low when properly used but precautions on can, label and / or data sheets should be observed. Use in well ventilated areas. Uncured product is flammable, so keep all sources of ignition away from product and its vapours.

PRIMING AND SURFACE PREPARATION

Good preparation is essential. Surfaces must be sound, stable, dry, clean and free of dust, loose, flaking, friable material and substances that may diminish adhesion.

Surfaces should ideally be suitably primed with VIKIN GP PRIMER applied at no less than 1 litre per 4m² and allowed to dry.

VIKIN GP PRIMER must be used for roof areas, timber and particle board surfaces, bitumen or where there is a risk of evaporation of entrapped moisture in the substrate, which may cause the membrane to bubble.

Alternative primers such as VIKIN GP PRIMER may be used in non-exposed porous areas and where the moisture content of the surface is very low, applied at 3 to 4 litres per m².

Metal surfaces must be clean and free of contaminants and then metal etch primed. If rusted, treat to remove rust, apply a rust converter and then metal etch prime.

Excessively porous, friable and dusty surfaces may require an additional priming coat.

Allow primers to dry or fully cure before applying the membrane and please refer to the product data sheets of the stated primers.

DETAILING PREPARATION

Corners

Prime as required.

Apply an adequate flexible polyurethane sealant, in accordance with the manufacturers instruction and tool off to form a solid, coved or 45° fillet extending at least 10mm on to the adjacent surfaces. Allow to cure. Apply the VIKIN membrane directly over the sealant and on the adjacent surfaces.

For Additional waterproofing protection, the following additional steps should be taken-

Lay a strip of VIKIN Leak-Seal Tape (self-stick, butyl mastic waterproofing membrane with a polyester backed reinforcing fabric) over the cured polyurethane sealant (as described above) pressing it firmly on the surface. Apply the VIKIN membrane directly over the tape and on the adjacent surfaces.

Joins, gaps and Cracks

General

Joins, gaps and cracks should be suitably filled and sealed with an appropriate elastomeric sealant, preferably a polyurethane sealant, and allowed to cure.

Recommendation: The movement of small cracks should not be underestimated and should be at least covered with a flexible polyurethane sealant or additional coats of membrane.

Large or Live Cracks

Large cracks should be routed out to form a 'V' and then filled and sealed with a polyurethane waterproof joint sealant as per the manufacturer's instructions. The sealant should be finished slightly proud of the surface and allowed to cure.

After priming, as required, lay a strip of VIKIN Leak-Seal Tape over the join or crack, pressing it firmly on to the substrate. The VIKIN membrane is then applied directly to the VIKIN Leak-Seal Tape and extending at least 75mm on to the adjacent surfaces.

If the VIKIN Leak-Seal Tape is not used, then a suitable bond breaker tape (such as duct tape) at least 48mm wide should be laid over the join or crack and apply a fully reinforced VIKIN membrane consisting of a base coat of membrane in to which the reinforcing fabric is embedded, a saturating coat of the VIKIN membrane ensuring that the fabric is entirely saturated and covered and then allowed to cure. At least one or two further coats are applied as per the VIKIN membrane's Product Data Sheet extending at least 75mm on to the adjacent surfaces.

Joins - Particularly in CFC Sheeting and Timber Sheeting

Ideally the sides of the sheets should be fully coated with a flexible polyurethane waterproof joint sealant prior to butting the sheets together.

If not, the joins should be suitably filled and sealed with an appropriate elastomeric polyurethane waterproof sealant and finished flush with or preferably slightly proud of the surface and allowed to cure.

After priming, as required, lay a strip of VIKIN Leak-Seal Tape over the join, pressing it firmly on to the substrate.

Waste Outlets, Penetrations and Angles

Waste Outlets: Floor wastes and puddle flanges should be rebated into the floor to allow water to readily drain. Fill all gaps and perimeters with a polyurethane joint sealant.

Plastic or metal angles: Where required by the Building Code such as internal hobs and exterior door barriers and also plastic corner angels under wall boards, they should be securely embedded into a continuous, gap free bed of a polyurethane sealant / mastic.

APPLICATION

Apply HYDRAGUARD Base by brush, roller, broom and squeegee in a minimum of two coats, usually a day apart so that the minimum dry film thickness is 1.2mm. Where no primer is used, an additional coat of HYDRAGUARD is recommended. The minimum wet coat thickness per coat is 1.5mm.

Reinforced System

In areas such as corners and over joins and cracks, the membrane should be used in conjunction with a reinforcing fabric (VIKIN Prime 15 or fibreglass matting). This application consists of applying a base coat in to which the reinforcing fabric is laid followed by the application of a saturating coat ensuring that the product is worked well into the fabric and that no wrinkles or bubbles are present and that fabric is entirely saturated and covered with product. Allow to cure. Apply one or two further coats of products.

Single Coat Application: In ideal conditions, the membrane may be applied in a single coat after proper priming and at prescribed coverage rate and dry film thickness as for 2 coats. The membrane should be monitored to ensure bubbling, pin holing or damage does not occur. If this occurs, the wet membrane should be lightly over-rolled.

COVERAGE

The stated average coverage rate may vary depending upon type, condition, porosity, texture of the surface and application technique.

HYDRAGUARD Base: Generally, 1.2 to 1.4 litres per m². for two coats combined, i.e. 0.75 to 0.80 litres per m². per coat. On average 18 pail covers a maximum of 20m² finished. Ensure that the dry film thickness of the cured membrane is at least 1.2mm. Minimum thickness per coat is 0.6mm, or 1.5mm WFT as a one coat system.

Primers: Generally 3m² to 4m² per litre per coat

COLOURS

Grey. Colour may lighten after application in direct sunlight.

DRYING AND CURING

Drying and curing of the product is affected by type, dryness and porosity of the surface, temperature, humidity, ventilation, climate conditions and application technique and therefore drying and curing can only be given as a guide.

Generally HYDRAGUARD is weather resistant within 8 to 12 hours with full cure within 24 hours.

STORAGE

Keep in cool, dry place away from heat, flame or combustible material. Product contains flammable solvents. Class 3 dangerous goods must be declared prior to transportation. Available in 15 Lt and 18.9 Lt pails.

Shelf life: 6 - 12 months in unopened container but best used within 6 months. As this is a polyurethane, some skinning of the product may occur. This should be cut out and removed. Balance of the product will be suitable for use.

CLEAN UP

Avoid spills. They are difficult to clean, particularly off porous surfaces. On concrete and non-porous surfaces for wet spills use a cloth and VIKIN Solvent. Do not clean off carpets as it is better to allow product to cure and then shave the carpet. Equipment should be immediately cleaned with VIKIN Solvent.

TILING, TOPPING OR TOP COATING

HYDRAGUARD Base should be covered, topped with sandcement mix, covered with geo-textile and pebbles or tiled.

If membrane is to be tiled, dry builders sand should be liberally and fully broadcast into the last wet coat to provide a mechanical fix.