MoVeX
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expansion joints and construction materials

GUARD SERIES

MVX Guard Elasto BitSeal

Water-based Elastomeric Bituminous Membrane

MVX Guard Elasto BitSeal is a one part, eco-friendly, water-based elastomeric bituminous waterproofing membrane for long term protection of exterior surfaces.

It dries to form flexible reinforced black coating that provides excellent adhesion to all immersed areas, water resistance and bridges cracks up to 2mm width.

Ideal for sealing water seepage and any harsh substances on marine ponds, concrete tanks, gutters, basements, etc. Its modified co-polymer also enables high building coating that helps absorb sound and reduce noise.

Eco-friendly Non-toxic Water-based | **High Tensile Strength** | **Seals Water Seepage** | **Excellent UV Rays Resistance**

AREA OF USE

- Suitable for exposed and concealed roof
- Asphalt concrete such as basements, lift pits, wet areas, retaining walls, foundation walls, planter boxes and concrete tanks (non-potable water)
- Asphalt concrete should never form any integral part of any structure

Packaging

20L Pail (25kg) | 200L Drum (250kg)

Estimated Coverage

Liquid application:
0.5kg = Approximately 0.4L = 1m²/coat

Wet Film Thickness = 500um to 600um per coat
Dry Film Thickness = 0.33mm to 0.39mm per coat

TECHNICAL DATA

Properties	Typical Value
Solid Content	Minimum 65%
Water Penetration	0, No water penetration
Density	1L = 1.25kg
Water Vapour Transmission	< 15gm/m² day
Adhesion to Substrate	0.4 N/mm²
Tensile Strength **	Minimum 5 N/mm² (with MVX Guard FG 100
Elongation **	≈ 500%
Crack Bridging	No cracks at 2mm and after 10 cycles of stretching and closing to a width of 1mm
Hardness Shore A Median	56 (with MVX Guard FG 100)
Turpentine / Akali Resistance	Good
Heat Resistance	No sagging, blistering or slipping
Water Resistance	Will not disperse, blister or re-emulsify
Fire Resistance	No combustion or rundown, coating charred in place
UV Exposure 1000 hours	Will not change in colour, crack, chalk, blister, peel, decay or delaminate
Thinner, if required	Water only

Shelf Life & Storage

12 months in unopened condition. Store in a cool-dry covered place and avoid direct exposure to sunlight.

Cleaning

All tools and equipment must be cleaned immediately with clean water after use. Hardened material can only be removed by mechanical means.

Preparation

Ensure the surface is free of any laitance, dirt, oil, wax or debris which may prevent the MVX Guard Elasto BitSeal from properly adhering to the surface.

Dry the surface completely before application. New concrete must be cured for at least 28 days.

For effective waterproofing, 1 priming + 3 full coats with MVX Guard FG 100 (Reinforcement Fibreglass Mesh) must be used.

Applying MVX Guard BitPrime

Apply MVX Guard BitPrime in a continuous application and allow to dry. Alternatively, the material may be diluted with up to 15% of water for priming purpose. When applying as a top coat, do not dilute.

Required Drying Time	Required Curing Time
1 to 2 hours	24 hours

Apply 2 coats on old and porous substrates. Allow at least 12 hours for solvent to completely evaporate before applying MVX Guard Elasto BitSeal.

Applying MVX Guard Elasto BitSeal

Apply a first coat of MVX Guard Elasto BitSeal at right angle to MVX Guard BitPrime coat after 24 hours and allow it to dry. Exert some force during this coating.

Follow-on with each subsequent MVX Guard Elasto BitSeal coat.

Ensure each coat is dry-to-touch prior to application of subsequent coats.

Protect from rain and frost until cured. Materials will be washed off when not fully cured.

Protect membrane from puncture/tear/rain before or during any **Backfilling** or **Screeding**.

The drying and curing time stated is dependent on the temperature and humidity. Apply each coat thinly. Thick coat exceeding 750 micron will increase drying time by several days.

Installing MVX Guard FG 100

Install MVX Guard FG 100 (Reinforcement Fibreglass Mesh) between the first and second coat where required.

Immediately apply the second coat (at right angle to the first coat) of MVX Guard Elasto BitSeal ensuring that MVX Guard FG 100 is fully saturated and immersed with the coating for an effective bonding and allow to dry.

Apply sebsequent coats to achieve the required thickness.

Installing MVX Guard AcrySeal RF

Where system is exposed to UV, a top coat of MVX Guard AcrySeal RF must be applied.

MVX Guard AcrySeal RF is available in standard White or Grey.

Allow the last coat of MVX Guard Elasto BitSeal to cure for at least 24 hours.

Follow-on Procedures

Screeding

Ensure an at least 50mm thick of follow-on screed for a good adhesion to material. Where necessary, apply a diluted coat of MVX Guard Elasto BitSeal and broadcast sand prior to screeding.

Drainage

Adopt good drainage practice by creating a slope to drain a minimum of 10mm per running metre.

Backfilling

Ensure the MVX Guard Elasto BitSeal system is fully cured before proceeding to backfilling. Avoid damaging the membrane.

Introducing Marine Lives

When used for marine creatures in a pond, it is essential to allow the coating to dry for at least 14 days.

Flush at least 3 times with clean water completely before filling the pond with desired water. Let the water and product stand for 2 to 3 days before adding any marine creatures.

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Movex Pte Ltd | movex.sg | 9 Tagore Lane #04-13, 9@Tagore Singapore 787472 | +65 6908 7638 | sales@movex.sg