

Technical Data Sheet.

Everflex VBS Primer Barrier

Vapour Barrier System / Primer / Negative Pressure Vapour Barrier

Description:

Adheseal Everflex VBS is a versatile, high-performance 2-part water-based epoxy barrier/primer suitable for a variety of applications.

Everflex VBS can be used as a vapour barrier system for negative waterproofing and as a primer for waterproofing systems, timber flooring applications, floor coating systems and many other applications.

Uses:

- Priming Damp Substrates
- Negative Waterproof barrier, up to 25m or 250kPa
- Isolation Barrier
- Sealing green concrete
- Priming External Substrates
- Preventing water seepage and permeation in building and construction substrates

Benefits:

- Rapid Drying for overcoating sooner.
- Non-Toxic, Low VOC Meets “Green Star” environmental criteria.
- Water-based, easy clean up with water.
- Inhibits mould and biological growth.
- Compatible with most common building materials
- Low Permeability Excellent Vapour Barrier.
- Once fully cured, it does not re-emulsify for long-term performance.
- Tough & Durable
- Suitable for Internal & External Applications



Acceptable Substrates:

- Concrete, after a curing period of 14 days.
- 3:1 sand cement and engineered screeds.
- Masonry/render, after a curing period of at least 4 days.
- Cement sheeting / underlay / external weatherboard / blue board / Scyon / AAC systems.
- Pre-cast concrete once the release agent has been removed/ dissipated.
- Wet area plasterboard / Villaboard
- Timber flooring including structural plywood Type A (PAA JAS-ANZ)
- Brickwork, Hebel (aggregate block)

Suitable Primer For:

- Everflex WPUV & HVUV.
- Everflex WPM Fast cure.
- Everflex Aqua-Ban.
- Polyurethane Membranes.
- 2 Part Cementitious Membranes.
- Parquetry adhesives.
- Urethane Floor coatings.

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Application:

Surface preparation:

All surfaces must be structurally sound, stable, dry, clean, and free of dust, loose, flaking, friable material and free from oils, grease, form release agents, curing compounds, and any other surface contamination that may hinder adhesion. Ensure that surfaces are free from protrusions, so that a continuous, even film build is achieved. Non-structural cracks, holes, and deformities are to be rectified. Substrate must be free from surface water and continual dampness. Concrete must be allowed to cure for at least 14 days. Sand cement screeds to be a 3:1 ratio, and cement render must be allowed to cure for at least 4 days prior to application of VBS. Failure to do so may result in poor adhesion and subsequent delamination.

Mixing:

Pre-stir part A and part B separately, then combine both parts in equal volumes in a 1:1 ratio. Mix well using an electric mixer until a uniform colour is achieved. If the addition of water is required, this must be added in the initial stages of mixing, not later. Only mix what can be used within the pot life of the mix.

Primer for Membrane Systems:

For 28-day-old concrete, apply by brush and or roller at a rate of 4-6 m² per litre, ensuring an even coverage and no ponding occurs.

Excessively porous substrates such as aerated concrete or 14-day-old concrete require an additional coat at 4-6 m² per litre. When applying additional (secondary) coats, do so 2 hours after the initial coat is touch dry, and within 24 hours of the previous coat's application. For highly porous substrates, a wash coat, being premixed VBS diluted 20% with water, may be used as a primer before undiluted coats are applied.

Vapour Barrier System:

To be applied by brush and or roller as an effective waterproof barrier against negative water vapour pressure.

Dilute premixed Everflex VBS with 10% water, apply as a primer/wash coat. Apply the 1st coat of VBS at 5m² per litre, fill cracks and holes with VBS repair paste while the 1st coat is still wet. Followed by a minimum of 2 additional coats, until a dry film thickness of 0.33mm is achieved. If this is not achieved in 3 coats, additional coats should be applied until a dry film thickness of 0.33mm is achieved. Do not thin/dilute subsequent coats. Application of

subsequent coats can be 2 hours after the initial coat is touch dry, and within 24 hours of the previous coat being applied. The stated rate of 5m² per litre per coat does vary depending upon the type, condition, porosity, and texture of the substrate.

Isolation Barrier:

As an isolation barrier between incompatible materials, apply additional coats until the entire area is a uniform colour.

Please note that all cure times vary depending on atmospheric conditions and porosity of the substrate.

VBS Repair paste:

Mix 1-part VBS Part A with 1-part VBS Part B as per mixing instructions above. When thoroughly mixed, add 1 part Portland cement and 1 part kiln-dried sand, and add water to the desired viscosity.

To apply: prime the area with VBS and trowel paste over/into the wet primed area.

Overcoating:

Subsequent coatings can be applied 2-4 hours after VBS is touch-dry, and within 24 hours (this period of time is commonly called the recoat window), at 25°C and 50% humidity; these times vary depending on atmospheric conditions. If the subsequent coating cannot be applied within the recoat window, an additional coat of VBS is advised.

Coverage:

Primer

4- 6 m² per litre, depending on surface porosity.

Vapour & Isolation Barrier

2- 3 m² per litre, depending on surface porosity.

Cure Time:

Allow approximately 24 hours cure time @25dg & 50% humidity. Please note that all cure times vary depending on atmospheric conditions and porosity of the substrate. Please note that once VBS is fully cured, another coat of VBS will need to be applied if a membrane/paint coating is applied.

Clean Up:

While the product is still wet, tools and spills can be cleaned with water. The cured product can be removed by mechanical means.

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Colour:

Light Grey

Can be tinted. Contact Adheseal's technical department.

Packaging:

20 Lt Everflex VBS Kit PRIMEVBS/20.

Kits are inclusive of both components.

Physical Properties:	
Type of product	Water-Based Epoxy
Mix Ratio	1:1 by weight or volume
Pot Life	2 hours @ 25°C, 1 hour @ 35°C
Consistency	Brushable/Rollable liquid
Recoat time	4-24 hours
Full Cure	5-7 days @ 25°C and 50% RH
Application temperature	10°C and 35°C
Storage: Cool, dry between	5°C and 35°C
Water Vapour Barrier Permeance	0.12g/24hrs/M ² mmhg @ 32°C and 50%RH
Consumption	3-8 m ² per litre per coat, depending on application
Hydrostatic Pressure. Up 25m or 250kPa @ 300 microns	Can withstand up to 25 metres head of water when applied at the recommended coverage rate with a minimum dry film thickness of 300 microns.
Shelf life	2 years
Clean up	While wet clean up with water
Colours	Light Grey
VOC Content	<5g/l

Limitations:

- Do not use when temperatures are below 10 °C or above 35 °C.
- Do not apply to metallic surfaces.
- Limited U.V. resistance (not designed for long term U.V exposure and must be overcoated).
- Do not apply to surfaces that have standing or flowing water if it is raining or if rain is imminent.
- Not suitable as an exposed coating. (Apply suitable UV-stable Adheseal topcoat)

Health and Safety:

Part A

First Aid:

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: If fumes, aerosols, or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.

Skin Contact: If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

Eye contact: If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Ingestion: Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

PPE for First Aiders: Wear rubber boots, gloves, apron, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking, or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician: Treat symptomatically. Effects may be delayed. Treat symptomatically

WARNING



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Part B

First Aid: If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.

Skin Contact: If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

Eye contact: If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Ingestion: If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness, i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

PPE for First Aiders: Wear rubber boots, gloves, apron, chemical goggles, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking, or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician: Treat symptomatically. Effects may

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Note:

Before application, refer to all relevant TDS's and SDS's detailed product specifications & application instructions.

Specification:

The information contained in this TDS 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. 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. Specifications for specific projects should be sought from the company in writing.

Conditions Of Use and Disclaimer:

The information contained in this TDS is given in good faith based upon our current knowledge and does not imply warranty, express or implied. The information is provided, and the product is sold on the basis that the product is used for its intended purpose and is used in a proper workman-like manner in accordance with the instructions of the TDS in suitable and safe working conditions. Under no circumstances will the Company be liable for loss, consequential or otherwise, arising from the use of the product.

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