

Technical Data Sheet

Everflex VBS

Vapor Barrier System / Primer / Negative Pressure Vapour Barrier**Description:**

Adheseal Everflex VBS is a high performance 2-part water-based epoxy suitable for all common and damp substrates. Everflex VBS can also be used as a vapour barrier system for negative hydrostatic barrier applications and as a primer for waterproofing systems, self-levelling compounds, timber flooring applications, floor coating systems and many other applications.

Uses:

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

Benefits:

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

Acceptable Substrates:

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

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 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.

Adheseal

The Adhesive and Sealant Specialists

Brisbane North
Brisbane South
Sunshine Coast
Gold Coast
Toowoomba

26 Wolverhampton St, Stafford QLD 4053
8 Moss St, Slacks Creek
18 Kessling Ave, Kunda Park QLD 4556
4/12 Distribution AV Molendinar QLD 4214
Mobile on the Darling Downs

PH (07) 3356 0000
PH (07) 3111 6666
PH (07) 5447 0022
PH (07) 5681 1111
PH 0427 006 548

Email sales@adheseal.com.au
Email slacks@adheseal.com.au
Email sc@adheseal.com.au
Email gc@adheseal.com.au
Email darlingdowns@adheseal.com.au

web: www.adheseal.com.au

Page 1 of 4

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Mixing

Pre stir part A and part B separately, then combine both parts in equal volumes ratio 1:1. 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

Apply by brush 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 may require additional coats. Apply additional (secondary) coats if required 2 hours after initial coat is touch dry, and within 24 hours of the previous coat being applied. For highly porous substrates a 20% diluted coat may be used as a primer before an undiluted coat is applied. In some circumstances, additional coats may be required.

Vapour Barrier System

As an effective waterproof barrier against negative water vapour pressure.

Ensure all cracks and holes are repaired before application of Everbond VBS. dilute premixed Everflex VBS with 10% water apply as a primer/wash coat, followed by a minimum of 2 coats at 5m² per litre per coat, until a dry film thickness of 0.33mm is achieved. If this is not achieved in 2 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 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 type, condition, porosity, and texture of the substrate.

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

To make 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 add water to desired viscosity.

To apply: prime area with VBS and trowel paste over 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

Apply by brush or roller in 1 coat at a minimum of 300 um (microns). This is achieved by applying at the rate of 6 m² per litre depending on surface porosity.

Vapour Barrier

Apply by brush or roller in 2 coats at a minimum of 200 um (microns). This is achieved by applying each coat at the rate of 5 m² per litre depending on surface porosity.

Cure Time.

Allow approximately 24 hours cure time @25dg & 50% humidity. Please note all cure times vary depending on atmospheric conditions and porosity of the substrate. Please note 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. Cured product can be removed by mechanical means.

Colours

Light Grey

Can be tinted, Contact Adheseal technical department.

Packaging

20 Lt Everflex VBS Kit PRIMEVBS/20.

Kits are inclusive of both components.

Brisbane North	26 Wolverhampton St, Stafford QLD 4053	PH (07) 3356 0000	Email sales@adheseal.com.au
Brisbane South	8 Moss St, Slacks Creek	PH (07) 3111 6666	Email slacks@adheseal.com.au
Sunshine Coast	18 Kessling Ave, Kunda Park QLD 4556	PH (07) 5447 0022	Email sc@adheseal.com.au
Gold Coast	4/12 Distribution AV Molendinar QLD 4214	PH (07) 5681 1111	Email gc@adheseal.com.au
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Physical Properties

Type of product	Water Based Epoxy
Mix Ratio	1:1 by weight or volume
Pot Life	2 hours @ 25°C, 1hour @ 35°C
Consistency	Brush-able/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 Vapor 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 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

- Point form TDS. Labels, Catalogue & Web Site?
- Do not use when temperatures are below 10oc or above 35oc.
- 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



Brisbane North	26 Wolverhampton St, Stafford QLD 4053	PH (07) 3356 0000	Email sales@adheseal.com.au
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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

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

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. Specification 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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