

Zealseal™ - Water Barrier

Waterproofing Solutions

Zealseal™ is a pre-formed, low-density, closed cell, crossed linked, nitrogen blown polyethylene material. Zealseal™ is used as a flexible joint seal that is waterproof and chemical resistant. Zealseal™ is compatible with construction materials and resistant to abrasion, oxidation, oils, gasoline, salt and other materials that may come in contact with the surface. Conforms to ASTM D-1056, Type 2 Class B, Grade 3.

Uses

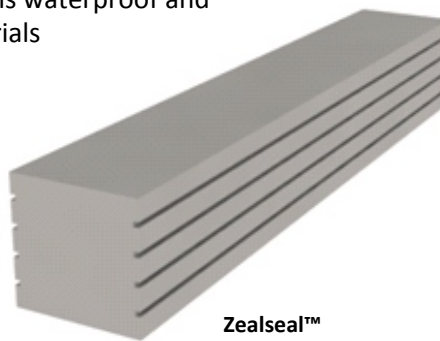
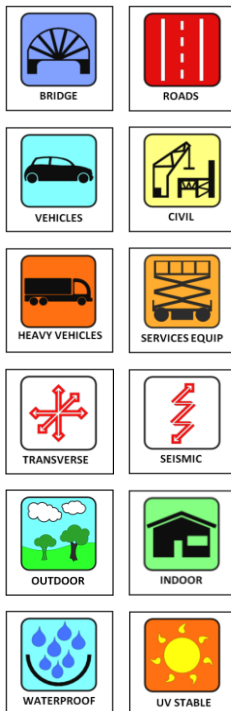
The product is an ideal expansion joint seal for:

- **Roads and Bridges,**
- **Roof top and multistory car parks**
- **Hydrostatic environments**

(Also available TytaSeal™ for use under expansion covers, and other internal waterproofing application)

Key Features

- Capable of 30% Tension & 60 % Compression
- Nitrogen blown, Chemically inert
- Capable of 100% Vertical & Horizontal Shear
- Higher Heat Resistance than Evazote Foams
- Weather & UV Resistant, UV Inhibitor added
- Intersections & Splices are field-welded
- Field installations are quick and easy
- A Monolithic Waterproof System
- Solvent and Chemical Resistance
- Hydrostatic Resistant to 70'
- Zealseal™ has a Working temperature range of -73 to + 93°C.



Zealseal™



Zealbond™



Physical Data

Property	Value	ASTM D3575
Density (nominal)	2.0 pcf ± 0.3	Suffix W
Compressive	11.5 psi @ 25% 22 psi @ 50%	Suffix D
Elongation	200% ± 10%	Suffix G
Tensile Strength	125 psi ± 12 psi	Suffix T
Tear Strength	17.5 pli ± 3 pli	Suffix T
Compression Set 22 hr @ 50%	9% @ 24 hr rcvy 13% @ 2 hr rcvy	Suffix B
Water absorption	< 0.03 lb/ft ² 3% vol/vol max	Suffix L
Weathering (AASHTO T42)	No deterioration w/in 10 yrs	

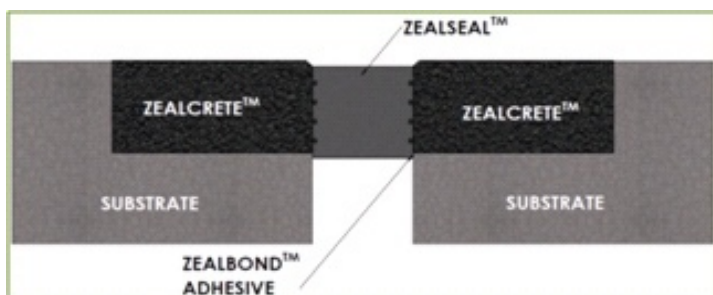
Installation

Zealseal™ is installed with Zealbond™ (2-part epoxy Adhesive) on both sides of the substrate and both sides of the Zealseal™. Zealseal must be installed by a certified Zealseal installer. Please see your Miska representative for details.

Zealcrete

Where required, Zealcrete is recommended as the expansion joint header and high impact nosing to preserve and protect the seal and surrounding decks. Associated products and data sheets available:

- Zealbond
- Zealcrete LV (Epoxy)
- Zealprimer
- Zealcleaner



Disclaimer: The information contained in this publication is intended to give a fair description of the products and their capabilities. No responsibility or liability by the manufacturers will be accepted for misuse, misreading or deviation from the recommended guidelines of these products. As new technology is introduced, or industry standards are altered, Miska reserves the right to alter the information without notice.

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Feb 2011

Miska (Aust) P/L

(A business unit of ITW Australia)

P.O. Box 1021 Archerfield, Queensland, 4110.

Telephone: 61 7 3277 7077 Facsimile: 61 7 3277 8858

Web: www.miska.com.au

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Sizing Guide (For Hydrostatic environments see your Miska representative)

Seal	Nominal Gap Size mm		Bridge and Road Applications		Car Park, Public Spaces and Architectural Applications	
Note: Product sizing is based on a mid range temperature of chart @ 20º C						
		Min Gap	Max Gap	Seal Depth	Max Gap	Seal Depth
ZS25	19	10	24	50	32	50
ZS30	23	12	29	50	39	50
ZS35	26	14	34	50	45	50
ZS40	30	16	39	50	52	50
ZS45	34	18	44	50	59	50
ZS50	38	20	49	50	65	50
ZS55	41	22	54	50	72	50
ZS60	45	24	59	75	78	50
ZS65	49	26	64	75	85	50
ZS70	52	28	69	75	91	75
ZS75	56	30	74	75	98	75
ZS80	60	32	79	75	104	75
ZS85	64	34	84	75	111	75
ZS90	67	36	N/A Max Allowable Gap 85 mm - RTA Spec		117	100
ZS100	75	40	N/A Max Allowable Gap 85 mm - RTA Spec		130	100

Zealbond™ Adhesive

Zealbond™ is a 100% solids, moisture insensitive two component, modified epoxy adhesive.

Surface Prep

For best results sandblast all surfaces to receive the Zealbond™. New concrete should cure 80% of designed strength prior to application. Steel surfaces should be sandblasted to SSPC-10, near white finish, immediately before the application.

Mixing

Mix according to specified mixing ratio with low speed drill for 1-2 minutes or until color is uniform

Application

By Trowel, Roller or Suitable Spray Equipment

Curing Time

Gel Time 20-40 mins, Initial Set 2-4 Hours



Zeal-Cleaner™

Zeal-Cleaner™ is a Zero-VOC Clean up solvent designed to be an industrial grade cleaner that is environmentally friendly. Zeal-Cleaner™ is a low viscosity, water soluble cleaner and degreaser that is an alternative to flammable cleaners and solvents. It will dissolve and aid clean up of most uncured epoxies, urethanes, paints, and other difficult to remove substances. The low evaporation rate allows the product to remain on the surface rather than flashing off into the air, minimizing the required amount for the job.



May be Used On

- Urethanes and Epoxies, grease and oils, paints and inks, etc

Advantages

- Water Soluble
- Does not evaporate
- Safe to Transport (No Dangerous Goods)
- Indefinite Shelf life in unopened containers

Storage

- Maximum storage temp: 40°C

Installation

Installation instructions provided on request, Miska can also provide contacts for approved installers in your Area.

Zealbond Adhesive Yield

Zealseal Depth (mm)	Approximate Coverage	
	Half Unit (1.9 Litre)	Full Unit (3.8 Litre)
50	7.5 LM	15 LM
75	5.5 LM	11 LM
100	3.5 LM	7 LM

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