

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

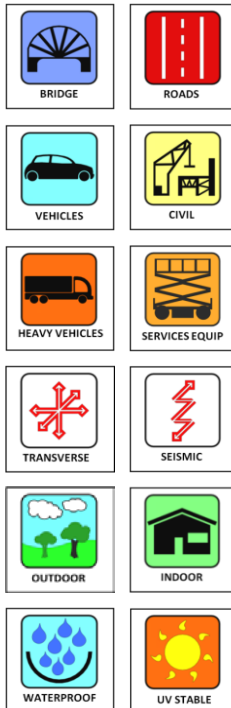
The product is an ideal expansion joint seal for:

- 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.



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/ft² 3% vol/vol max | Suffix L |
| Weathering (AASHTO T42) | No deterioration w/in 10 yrs | |

Installation

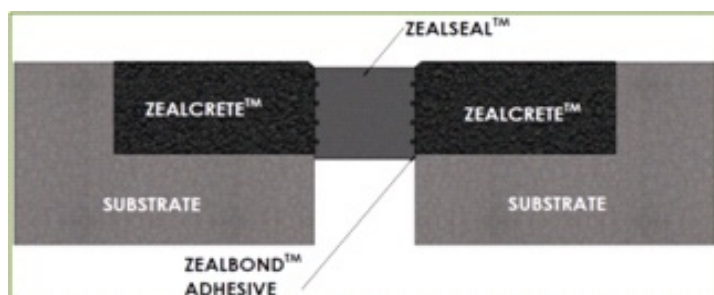
Zealseal™ is installed with Zealbond™ (2-part epoxy Adhesive) on both sides of the substrate and both sides of the Zealseal™. Zealseal must be installed by a certified Zealseal installer. Please see your Miska representative for details.

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.

Rev.02
Feb 2011

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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 @ 20° 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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