

# Zealbond™

## Epoxy Construction Adhesive



**Zealbond™** is a 100% solids, moisture insensitive, two-component, modified epoxy adhesive, developed for the construction industry for bonding various construction materials to cured concrete in high stress applications. The material has excellent adhesion to steel, concrete, wood, and other construction materials. Meets ASTM C-881, Type I & II, Grade 2, Class B & C.

### Key Features

- Excellent adhesion to various substrates
- Very good solvent and chemical resistance
- Excellent barrier against Chloride ions
- Resistant to UV and ozone exposure
- Resistant to freeze-thaw changes
- Excellent moisture barrier
- Fast cure
- Available in Full (3.8ltr) and Half (1.9ltr) units

### Uses

- Bonding agent for Zealseal™, TytaSeal™ & other cellular plastic glands to concrete, elastomeric concrete, steel, and other construction materials.
- Adhering anti-skid grit to hardened surfaces
- Bonding cured concrete to cured concrete

### Surface Prep

For best results sandblast all surfaces to receive 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 of the Zealbond™. Brass, aluminum, galvanized steel and other specialty metals require an acid etch primer prior to application of Zealbond™

### Mixing

Mix according to specified mixing ratio with low speed drill for 1-2 minutes or until color is uniform  
Ratio – 4 Parts A: 1 Part B

### Application

Trowel, Roller or Suitable Spray Equipment

### Curing Time

Gel Time: 20-40 mins  
Initial Set : 2-4 Hours @ 25°C  
Initial Cure: 8-12 Hours @ 25°C

### Shelf Life

2 Years in original unopened containers

### Storage

Store between 16-38°C, keep from freezing

### Cleanup

Miska recommends Zealcleaner™, Isopropyl Alcohol, or equivalent



### Physical Data

#### Appearance @ 25° C

	Part "A"	Part "B"	Mixed
Color	Off White	Black	Grey
Viscosity	Thixotropic	Thixotropic	Thixotropic

#### Physical Properties

Compressive, psi	9000, ± 1000	ASTM C-579
Percentage Elongation %	1-3	ASTM D638
Tensile Strength ± 1 ft-lb	4000, ± 500	ASTM D638
Bond Strength (to concrete)	500 psi	ASTM D624
	2600	ASTM C-882
Shore D Hardness	80 min.	ASTM D2240
Water Absorption	0.25% by weight max.	

#### Zealbond™ Application Rate when installing Zealseal™

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

#### Zealbond™ General Rate of Coverage

Zealbond™ unit size	Approximate Coverage (m <sup>2</sup> )
Full Unit (3.8 Litre)	3.7
Half Unit (1.9 Litre)	1.85

#### Additional Notes:

**Safety:** For health and Safety information please refer to the product MSDS.

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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