



BONDER 1

ADHESIVE FOR MIGUSEAL, E-CRETE 57N, PHYZITE 380

IMPERIAL SYSTEM PRODUCTS

BONDER NO 1

Bonder No. 1 is a 100% solid two component, moisture insensitive, modified epoxy adhesive specifically designed for adhering pre-formed closed cell joint seals to a variety of substrates.

Additional applications include bonding cured concrete to steel, cured concrete, wood and many other construction materials, for application at temperatures down to 38°F (3°C).

Miguseal meets ADA criteria for ground and floor surfaces as stated in the rules and regulations section of the Federal Register Volume 58 no.144, US Access Board.

FEATURES	BENEFITS
Meets ASTM C-881	Adhesive for various construction materials
Excellent adhesion to closed cell foams	High performance adhesive for Ceva closed cell foam expansion joint systems
Pot life 30 minutes	Ideal working time when used as an adhesive for Ceva Expansion Joint Systems
Moisture insensitive	Bonds to damp surfaces

USES

Application

- Bonding pre-formed closed cell foam joint seals to concrete substrates.
- Primer for E-Crete 57N (elastomeric concrete)
- Bonding typical construction materials together
- Grouting equipment/base plates

LOCATIONS

- Bridges, Highways, & Tunnels
- Parking Structures
- Commercial Buildings
- Water Treatment Facilities
- Elastomeric Concretes
- Cured Concrete
- Stainless Steel
- Wood

SURFACE PREPARATION

Concrete:

Remove all oils, grease, dirt, waxes, existing coatings, curing compounds, heavy laitance and sharp edges or protrusions from concrete substrate.

NOTE:

New concrete should cure 80% of the design strength. Sandblasting of surfaces is highly recommended

APPLICATION

- Bonder No. 1 may be applied by brush roller, trowel, caulking gun or by hand with rubber gloves.
- Apply an approximate finish of 40 to 60 mils (1.016 mm to 1.524 mm) covering the entire surface and filling holes or cavities.
- Prior to Bonder No. 1 reaching the tack stage, place second material against the adhesive.
- If tack stage is reached prior to adhesion, re-apply Bonder No. 1.

COVERAGE

When used as a bonding agent for construction products @ 70°F: 40 sq. ft./gallon @ 40 mils.

When used as an adhesive for pre-formed closed cell foam joint seal please use the chart below.

NOTE:

A joint foot denotes coverage of both sides of joint material and both sides of the noted substrate.

When used as a primer for E-Crete #57 & 57N @ 70°F apply the bonding agent at 20 – 40 mils or 40 – 80 sq. ft./gallon on all exposed surfaces.

BONDER 1 MATERIAL COVERAGE METERS PER 1 US GALL / 3.79 LITERS		
DEPTH	CONCRETE	STEEL
25 mm	30.38	36.6
50 mm	15.24	18.28
75 mm	10.66	12.19
100 mm	7.6	9.144

STORAGE

Materials must be kept in a dry area at temperatures between 50°F and 95°F (10°C - 35°C) in the original unopened containers during all phases of delivery, storage and handling.

DO NOT ALLOW PRODUCT TO FREEZE.

CAUTION

Direct contact with skin should be avoided as it can cause skin irritation. Protective clothing, goggles and gloves are required.

In case of direct contact with the skin, wash with soap and water. In the case of accidental contact with eyes, flush immediately with plenty of water and report to a doctor. Fatal if taken internally. Keep away from open flame.

IMPERIAL SYSTEM PRODUCTS

LIMITATIONS

Minimum substrate and ambient temperature is 38°F (3°C). Do not thin with solvents. KEEP OUT OF REACH OF CHILDREN

MIXING

- Separately mix Components A and B thoroughly.
- For smaller batches, mix 3 parts of Component A with 1 part of Component B in a clean plastic or metal pail.
- For full gallon batches, add the small container into the 1 gallon container. Mix for approximately 3 minutes or until there is no marbling.
- Only mix the required amount of material to ensure that the pot life is not exceeded.
- Warmer weather, as well as larger batches, decreases the pot life of the mixed material.

GROUTING AND PATCHING

Add clean dry silica sand to the premixed resin at a 1:1 ratio, mixing it thoroughly while adding silica sand.

TECHNICAL DATA

PROPERTIES	PART A	PART B	MIXED
Color Grey Beige	White White	Black Caramel	Grey Beige
Mixing Ratio	3	1	3:1
Specific Gravity	1.47	1.15	
Density Lbs/gal @ 25°C	12.0±0.5	9.6±0.2	
Viscosity (cps) @ 25°C	35,000±10,000	10,000±2,000	
Gel Time (200gms)			100± mins.
Initial Set, min @25°C			1.5-2 hrs.
Full Chemical Cure			7 days
Compressive Strength; psi, ASTM D695			70000 psi
Tensile Strength, psi, ASTM D638			3500 psi
Elongation, ASTM D638			3-5%
Shore D Hardness ASTM D2240			80 ±5
Water Absorption, ASTM D570			0.25%
Bond Strength ASTM D4541			430 psi/min

AVAILABILITY

In Standard cartons.

- 1 us gall set consist of One par Hardener and One part of Base
- Each carton consist of 2 sets of 1 us gall units

CLEAN UP

Uncured material can be removed with an approved solvent.

Follow solvent manufacturer’s instructions for use and warnings.

Cured material can only be removed mechanically.

In case of a spill, ventilate area and contain spill with absorbent materials. Dispose of in accordance with standard practice.

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