1. PRODUCT NAME
#782 ACID SHIELD

2. MANUFACTURER
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3. PRODUCT DESCRIPTION
Polygem’s #782 Acid Shield is a two-component, pigmented, modified Novolac epoxy. It is a 100% solids, moisture insensitive, non-shrink, nearly no odor during application. Excellent acid resistance in trenches and secondary containments.

Uses
In decorative, commercial, institutional, industrial and civil engineering applications where acid environments exist or have potential spillages. This product handles most heavy-duty industrial and manufacturing floor conditions.

Advantages
- NO VOC’s – 100% Solids formula
- Complies with USDA, FDA, OSHA, ADA
- Moisture-insensitive formula
- Excellent Impact and Abrasion Properties
- Excellent work Time
- Excellent Strength Properties
- Curable down to 40°F

Packaging
3 and 5 gallon units

Shelf Life
Factory sealed containers of this product are guaranteed to be of first quality for 12 months - Keep from Freezing

Cautions
Wear chemical goggles and NIOSH approved respirator. Wear proper protective clothing and gloves to prevent direct contact of resins. Consult Safety Data Sheet for full listing protective requirements.

#762 ACID SHIELD may irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin.

For professional use only.
Keep out of reach of children.

4. TECHNICAL DATA

Performance Properties @ 73°F., 50% R.H.
Test/Test Method Results
Viscosity, cps 1500-1800cps
Color Standard Colors
Pot Life, minutes 18 minutes
Consistency Nearly Self Leveling
Tack-Free Time, hours
40°F 12-14
73°F 6-8
90°F 4-6
Tensile Properties (ASTM D638) 7 Days
Tensile Strength 7,800psi
Elongation at Break 5-8%
Flexural Properties (ASTM D790) 7 Days
Flexural Strength 13,300psi
Tangent Modulus of Elasticity 500,000psi
Slant Shear Strength (ASTM C882) 7 days
Temp Value Mode of Failure
50°F 4,000psi 100% Concrete Failure
90°F 4,200psi 100% Concrete Failure
Compressive Strength (ASTM D695)
Temp/ Value Mode of Failure
40°F 13,100psi
73°F 13,700psi
90°F 13,900psi
Compressive Strength (ASTM C579) 7days
EPC 10,800psi
Hardness (Indentation- ASTM D 2240)
Neat epoxy, 7 day cure, Durometer, Shore D 80
Indentation (Load-MIL-D-3134, Para.4.7.4.2.1)
EPC, 7 day cure, Method: 1 in. diameter steel ram steadily applies a load of 2,000 lbs. for 30 min. on the test specimen that is placed on the concrete. Value-0.002in. indentation
Indentation (Impact- MIL-D-3134, Para.4.7.3)
EPC, 7 day cure, Method: 2 lbs steel ball is dropped twice from an 8ft height. Value -0.010 in. indentation
Adhesion to Concrete (Tensile Pull- ACI 503R)
EPC, 7 day cure, 400psi, 100% concrete failure
Abrasion Resistance (Taber-ASTM D 4060)
EPC, 7 day cure, 1,000 cycles, 1,000g. load, Wheel No.17, Loss 0.049g
Water Absorption (ASTM D 570)
EPC, 7 day cure, max. 0.11%
Coefficient of Thermal Expansion (ASTM D696)
Temperature range -30°C (-22°F) / 30°C (86°F)
7 days 18.0 x 10-6 in/in.°F
Resistance to Elevated Temperature (MIL-D-3134J0)
EPC, 7 day cute, No slip or flow at required temperature of
198°F and spillage at 180°F
Deflection Temperature (ASTM D 648)
Neat epoxy, 7 day cure, Fiber Stress Loading= 264psi, 195°F
Flammability (ASTM D635)
EPC, 7 day cure, self-extinguishing
Microbial Resistance (ASTM G21) Passes

Polygem, Inc. warrants its products to be free of manufacturing defects and that, at the time and place of shipment, our material will meet current physical properties when applied within Polygem’s directions and tested in accordance with ASTM and Polygem standards. Polygem, Inc’s liability is limited to replacement of material found defective. As Polygem, Inc. has no control over the use to which others may put its products, it is recommended that the product be tested to determine if suitable for a specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Nothing contained herein shall be construed to be a recommendation to use or as a license to operate under or to infringe any existing patents.

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Data sheets are subject to change without notice