

HIGH- BUILD PIGMENTED EPOXY FLOOR BASE AND EPOXY POLYMER CONCRETE

1. PRODUCT NAME

#747 HIGH-BUILD PIGMENTED EPOXY

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

Polygem's #732 is a two-component pigmented modified epoxy floor base coating or epoxy polymer concrete (when aggregate is added)

Uses

Used in decorative, commercial, institutional and industrial applications where the toughest heavy-duty industrial and manufacturing environments exist. Broadcasted product cures faster than neat coating.

Advantages

- NO VOC's – 100% Solids formula
- Nearly No odor during application
- Complies with USDA, FDA, OSHA, ADA
- Moisture-insensitive formula
- Excellent Impact Properties
- Excellent Strength Properties
- Take free in 2 to 3 hours

4. APPLICATION INSTRUCTIONS

#747FS as a mixed polymer may be applied as a neat coating, single or double broadcasted, slurry, or EPC hand troweled or power troweled. Complete with a Polygem Top Coat.

Packaging – 3, 5, 15, 50- gal/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.
- #747FS may irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin.
- For professional use only.
- Keep out of reach of children.

5. TECHNICAL DATA

Performance Properties @ 73F., 50% R.H.

Test/Test Method Results

Viscosity, cps	550-750 cps
Color	8 standard colors
Pot Life, minutes	10-15 minutes
Consistency	Nearly Self Leveling

Tack-Free Time, hours

40°F	6-8
73°F	2-2.5

Tensile Properties (ASTM D638) 7 Days

Tensile Strength 7,800psi

Elongation at Break 5%

Flexural Properties (ASTM D790) 7 Days

Flexural Strength 13,000psi

Tangent Modulus of Elasticity 500,00psi

Slant Shear Strength (ASTM C882) 7 days

Temp	Value	Mode of Failure
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73°F	4,100psi	100% Concrete Failure
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40°F	4,000psi	100% Concrete Failure
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Compressive Strength (ASTM D695)

Temp/	6 hours/1day/7days
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50°F	3,600/9,600/14,000psi
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73°F	6,800/10,100/14,000psi
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Compressive Strength (ASTM C579) 7days

EPC 11,000psi

Hardness (Indentation-ASTM D 2240)

Neat epoxy, 7 day cure, Durometer, Shore D 82

Adhesion to Concrete (Tensile Pull- ACI 503R)

EPC, 7 day cure, 390psi, 100% concrete failure

Abraison Resistance (Taber-ASTM D 4060)

EPC, 7 day cure, 1,000 cycles, 1,000g. load, Wheel

No.17, Loss 0.051g

Water Absorption (ASTM D 570)

Neat, 7 day cure, max. 0.23%

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

Flammability (ASTM D635)

EPC, 7 day cure, self-extinguishing

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.

#747FS PIGMENTED EPOXY FLOOR BASE 04/2017

Data sheets are subject to change without notice