

# #721 HD-SL

## HEAVY DUTY, SELF LEVELING, EPC PROTECTIVE OVERLAY

### 1. PRODUCT NAME

#721 HD-SL

### 2. MANUFACTURER

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### 3. PRODUCT DESCRIPTION

Polygem's #721 HD-SL is a three- component, self-priming, self-leveling EPC, 100% solids epoxy moisture insensitive system. It becomes a monolithic part of existing substrate.

### Uses

Any Environment that needs a flat,level highly durable substrate.

### Advantages

- NO VOC's – 100% Solids formula
- Moisture-insensitive formula
- Excellent Impact Properties
- Excellent Strength Properties
- Self- Leveling
- Curable down to 40°F
- Complies with USDA, FDA, OSHA, ADA

### 4. APPLICATION INSTRUCTIONS

Pre-mix each component. Place one part component "B" into component "A" and mix for 1 minute. Add 1 bag specialized aggregate, mix completely, pour out complete mix in ribbon, gauge rake and spike roll.

### Shelf Life

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

### Packaging –

Self-Leveling Kit: 60ft<sup>2</sup> at 1/8" in or 40 ft<sup>2</sup> at 3/16"  
Neat Top Coat: 10 Mills (160ft<sup>2</sup>/Gal)

### 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.
- #721- HD-SL 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	Flow-able EPC
Color	8 Standard Colors
Pot Life, minutes	30 Minutes minutes
Consistency	Self Leveling

Tack-Free Time, hours

40°F	11-12
73°F	6-7
90°F	5-6

Tensile Properties (ASTM D638)

Tensile Strength 7 Days 8,400psi

Elongation at Break 8%

Flexural Properties (ASTM D790) 7 Days

Flexural Strength 16,800psi

Tangent Modulus of Elasticity 530,00psi

Slant Shear Strength (ASTM C882) 7 days

Temp	Value	Mode of Failure
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50°F	4,000psi	100% Concrete Failure
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90°F	4,200psi	100% Concrete Failure
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Compressive Strength (ASTM D695)

Temp/	8 hours/1day/7days
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50°F	3,500/10,000/12,700psi
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73°F	6,000/10,200/12,900psi
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90°F	9,300/10,400/13,00psi
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Compressive Strength (ASTM C579) 7days

EPC 11,500pci

Hardness (Indentation-ASTM D 2240)

Neat epoxy, 7 day cure, Durometer, Shore D 80

Adhesion to Concrete (Tensile Pull- ACI 503R)

EPC, 7 day cure, 400psi, 100% concrete failure

Abraison Resistance (Taber-ASTM D 4060)

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

No.17, Loss 0.047.9g

Water Absorption (ASTM D 570)

Neat, 7 day cure, max. 0.26%

Coefficient of Thermal Expansion (ASTM D696)

Temperature range -30°C (-22°F) / 30°C (86°F)

7 days 17.0 – 19.0 x 10<sup>-6</sup> in/in./°F

Flammability (ASTM D635)

EPC, 7 day cure, self-extinguishing

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Data sheets are subject to change without notice