

# TECHNICAL DATA SHEET



## NexGen PolyFlex 205 EZ Polyaspartic

### PHYSICAL PROPERTIES

|                  |                                       |
|------------------|---------------------------------------|
| % SOLIDS         | 92%                                   |
| VOL. RATIO       | 2 A : 1 B                             |
| VISCOSITY        | 500-750 cps                           |
| DRY TO TOUCH     | 2-3 Hours at 70° F                    |
| RECOAT TIME      | 2-23 Hours at 70° F                   |
| POT LIFE         |                                       |
| CURE             | 4-6 hours                             |
| APPLICATION TEMP | 40°-90 ° F                            |
| COVERAGE RATE    |                                       |
| Primer:          | 160 -200 sq ft/gal                    |
| Topcoat:         | 100-120 sq ft/gal                     |
| PACKAGING        | 1.5 Gal kit , 3 Gal Kit<br>15 Gal Kit |

### MECHANICAL PROPERTIES

|                                   |                |
|-----------------------------------|----------------|
| ABRASION RESISTANCE<br>ASTM D4060 | 15 mg loss     |
| SHORE D HARDNESS<br>ASTM D2240    | 65-70          |
| TENSILE STRENGTH<br>ASTM D2370    | 6000 PSI       |
| ELONGATION<br>ASTM D2370          | 5%             |
| UV RESISTANCE<br>ASTM D4587       | HIGH (Level 3) |
| WATER ABSORPTION<br>ASTM D570     | <0.05          |
| IMPACT RESISTANCE<br>ASTM D2794   | 120 in-lbs     |

### CHEMICAL RESISTANCE PROPERTIES

Refer to NexGen Chemical Resistance Chart

PolyFlex 205 EZ is a Next Generation Low Odor Polyaspartic clear, two- component polymer coating. Available as clear or field pigmented this unique coating provides exceptional chemical and U.V. resistance as well as handles the highest abrasion levels of any topcoat.

#### SURFACE PREPARATION

**NEW CONCRETE:** Surface laitance must be removed by diamond grinding on concrete that is cured for a minimum of 28 days. The concrete must be structurally sound, dry, and free of contaminants and other coatings. Rising moisture vapor emission rate must not exceed 3 lb. per 1000 sq. ft. over a 24-hour period as measured method ASTM F-1869. The preferred method of surface preparation is to mechanically abrade the floor by diamond grinding to achieve a final #80-#120 grit finish, reference profile CSP-2 according to ICRI. PolyFlex 205 can be applied directly to concrete as a basecoat.

**PREVIOUSLY COATED:** The preferred method of surface preparation is to mechanically abrade the epoxy floor by sanding with a #60-#80 grit sand paper then removing all dust with a vacuum and wiping with acetone.

#### MIXING

Must pre-mix prior to use. Hand mixing will produce inconsistent results and is not an approved method. Before starting, ensure that the material, concrete surface, and the ambient air are all at 50-90°F. Mixing ratio is 2 parts by volume of Part A to 1 part by volume of part B. Pre-mix both A and B sides prior to combining. Add part "A" to the mixing container. Add part "B" to the mixing container and mix for 3 minutes with Jiffy Mixer.

#### PIGMENTING

Pre-mix NexGen Universal Tint Packs into the Part A at 4 oz. per gallon of mixed floor coating material and combine thoroughly via power mix to achieve uniform dispersal.

Note: Some colors, especially lighter colors, may require an additional coat for full hide.

#### APPLICATION EQUIPMENT

Squeegee, brush, or high-quality non-shed roller

#### APPLICATION

Apply with a squeegee, brush, or high-quality non-shed roller. Only mix the amount of product that can be properly applied within 20-40 minutes. Apply only to clean and sound substrates. Mechanical preparation by means of shot-blasting or diamond grinding to an ICRI CSP 2/3 is recommended

DO NOT LET MATERIAL PUDDLE AS WHITE SPOTS MAY OCCUR

#### CLEANUP

Clean Tools and application equipment immediately after use with solvent like acetone. Clean spills or drips while still wet with solvent. Dried product will require mechanical abrasion for removal.

#### LIMITATIONS

Do not apply to substrates below 50° F  
Do not thin this product.

Do not let product freeze, this will damage it.

#### PRODUCT HANDLING

Avoid contact of uncured material to skin and eyes, proper PPE should be used during the handling of this product. Contact with skin may result in irritation. Wash skin with soap and water. If contact with eyes should occur, flush with water for 15 minutes and seek immediate medical attention.

#### SHELF LIFE

1 Year from the Date of Manufacture provided containers are unopened.

#### STORAGE & DISPOSAL

Store in a dry environment at room temperature out of direct sunlight. Dispose of waste in accordance with federal, state and local regulations.