XFL-18A RESIN
XFL-18B HARDENER

SLOW 85% SOLIDS POLYASPARTIC FLOORING SYSTEM

PRELIMINARY TECHNICAL DATA BULLETIN

SYSTEM BENEFITS:

XFL-18A Resin with XFL-18B Hardener is a two-component floor coating system, 85% solids, slow drying polyaspartic enable for one-day flooring with excellent moisture barrier while offering superior adhesion to concrete surfaces. XLF-18A/XFL-18B has a low mixed viscosity and 4-hour overcoat window that is ideally suited for industrial cement floor coating applications.

- Improved Adhesion to Concrete
- Low Viscosity, Easy Roll On
- Same Day Overcoat

HANDLING PROPERTIES	XFL-18	Test Method
Resin Density at 25°C, lbs/gal	8.6	ASTM D1475
Hardener Density at 25°C, lbs/gal	9.9	ASTM D1475
Resin Viscosity at 25°C, cP	400	ASTM D2196
Hardener Viscosity at 25°C, cP	250	ASTM D2196
Mix Ratio by Weight	100A : 110B	Calculated
Mix Ratio by Volume	1A : 1B	Calculated
Initial Mixed Viscosity 25°C, cP	325	ASTM D2196
Working Time at 25°C, 250g mass, min	30-40	
Gel Time at 25°C, 250g mass, hr	6.5	ASTM D2471
Dry Time – Set to Touch at 25°C, 14 mil, hr	2.1	ASTM D5895
Dry Time – Tack Free at 25°C, 14 mil, hr	2.6	ASTM D5895
Dry Time – Dry Hard at 25°C, 14 mil, hr	8.6	ASTM D5895
Dry Time – Dry Through at 25°C, 14 mil, hr	11	ASTM D5895
Full Cure at 25°C, Days	5-7	

PHYSICAL PROPERTIES	XFL-18	Test Method
Color	Clear	Visual

SYSTEM CURE OPTIONS:

Full cure required to obtain maximum physical and thermal properties of the system. Overcoat and Foot Traffic Times vary with thickness of coating, ambient temperature, and relative humidity. Thinner coats, warmer temperatures, and higher humidity set faster. Thicker coats, cooler temperatures, and lower humidity set slower. If you need to deviate from the recommended cure schedule, please contact our technical service department.

CURE INCREMENTS:

XFL-18	7 Days at 77°F (25°C)
Room Temperature Cure	Supported

MIXING INSTRUCTIONS:

Always use the recommended mix ratio for the system. Do not deviate in an attempt to speed up or slow down gel time. Mix together thoroughly, scraping sides and bottom of mixing container, until no streaks or striations are visible, then use immediately. Use only clean dry tools for mixing and applying. Do not mix or apply below 60°F.

STORAGE AND CRYSTALLIZATION:

Store between 60-90°F in a dry place. After use, tightly reseal all containers and store products on a raised surface during cold weather and avoid storing near outside walls or doors. If available, Purge with dry nitrogen to preserve color and minimize moisture contamination. Do not allow to freeze during winter storage. Do not use material with any signs of crystallization such as solid chunks, grainy texture or white color. Crystallization can be reversed by heating the material to 125-140°F, and stirring occasionally, until all crystals dissolve.

SAFETY HANDLING:

Wear protective gloves, clothing, and eye/face protection. Use only outdoors or in a well-ventilated area. Avoid contact to the skin and eyes. Avoid breathing dust, fumes, gas mist, vapors and spray. Wash hands thoroughly after handling. Take off contaminated clothing and wash before reuse. These products may cause skin and respiratory allergic reactions. Consult product Safety Data Sheets for complete precautions for use of this product.

Polytek Development Corp. has experience only in the compounding of resins and hardeners and not in the actual manufacture of tools or parts. Each piece is different. The user should run tests to assure the suitability of the system for use in a particular application. The test data and results set forth herein are based on laboratory work and do not necessarily indicate the results that the buyer or user will attain.

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