

# POLYASPARTIC HS

HIGH SOLIDS

**SIMIRON POLYASPARTIC HS** is a two-component, high performance, aliphatic polyaspartic floor coating designed for application over full broadcast systems. It is available in SLOW, MEDIUM, and FAST speeds to cover a wide range of application temperature and cure time needs. It provides superior protection through its excellent adhesion, durability, and resistance to stains, chemicals, and damaging UV rays.

**POLYASPARTIC HS** can be applied up to 16 mils thick in a single pass to seal floors broadcast with Decorative Chip, decorative quartz and silica sand, which greatly reduces return to service time over other coating types. It dries to a hard, non-yellowing finish with superior chemical resistance that can be used in both indoor and outdoor applications.



## FEATURES & BENEFITS:

- Easy-to-Clean High Gloss Finish
- Resists Abrasion and Scratches
- Superior Chemical Resistance
- UV Stable
- User-Friendly Polyaspartic, 1:1 Mix Ratio
- Fast Return-to-Service
- High Solids, Low Odor

## RECOMMENDED USES:

- Restaurants
- Bars & Cafeterias
- Sports Arenas/ Stadiums
- Corridors & Lobbies
- Kennels & Labs
- Locker Rooms / Restrooms
- Garages & Auto Service Areas
- Offices & General Rooms
- Exterior or Areas Exposed to UV
- Topcoat for Floors Broadcast to Refusal



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## PRODUCT INFORMATION

PRODUCT NAME	SIZE	COLOR/FINISH	ITEM NUMBER
Polyaspartic HS Slow Cure	2-Gallon Kit	Clear / Gloss	40008919
Polyaspartic HS Medium Cure	2-Gallon Kit	Clear / Gloss	40009038
Polyaspartic HS Fast Cure	2-Gallon Kit	Clear / Gloss	40008925
Polyaspartic HS Activator	5-Gallon	Clear / Gloss	40008956
Polyaspartic HS Slow Cure Base	5-Gallon	Clear / Gloss	40008932
Polyaspartic HS Medium Cure Base	5-Gallon	Clear / Gloss	40009045
Polyaspartic HS Fast Cure Base	5-Gallon	Clear / Gloss	40008949

## TECHNICAL DATA

PHYSICAL DATA	
Components	2 (Base & Activator)
Color	Clear
Finish	High Gloss
Mix Ratio (by volume)	1: 1
Curing Mechanism	Chemical reaction between components
Solids by Volume	90 - 93%
Solids by Weight	90 - 93%
Mixed Viscosity	400 - 500 cP
VOC (EPA Method 24)	< 50 g/L

CURE TIMES AT 72°F (25°C) 50% RH	SLOW	MEDIUM	FAST
Drying Schedule	@ 10 mils	@ 10 mils	@ 10 mils
Work Time (squeegee/backroll) (@73 F, 45% RH)*	45 - 50 mins	30 - 35 mins	13 - 17 mins
Work Time (dip & roll) (@73 F, 45% RH)*	1.5 hours	1 hour	30 mins
Tack Free	6 hours	3.5 hours	1 hour
Light Foot Traffic	17 - 20 hours	10 - 12 hours	4 - 6 hours
Heavy Traffic	72 hours	48 hours	48 hours
Full Cure	5 days	5 days	5 days
Minimum Recoat	17 hours	10 hours	4 hours
Maximum Recoat	24 hours **	24 hours **	24 hours **

\*Higher temperatures and humidity will shorten pot-life and working time.

\*\*If applying a second coat, it must be applied within 24 hours after the first. If the re-coat window is missed, the coating system will need to be mechanically abraded.

## THEORETICAL COVERAGE

Wet Milts (microns)	10 (250) - min.	16 (406.4) - max.
Coverage sq. ft./gal. (m <sup>2</sup> /L)	160 (4.1) - min.	100 (2.05) - max.

## PHYSICAL PERFORMANCE PROPERTIES

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Coefficient of Friction (Wet SCOF)	ANSI / NFSI B101.1	.63 (14 mils over full flake)
Elongation	ASTM D2370	5 - 10%
Flammability	-	Self-extinguishing over concrete
Flexibility 1/8" Mandrel	ASTM D522	Passes; No Cracking
Hardness, Shore D (24 hours, 5 days)	ASTM D2240	70, 86
Taber Abrasion (CS-17 Wheel, 1000 g Load, 1000 Cycles)	ASTM D2240	30 mg loss
Tensile Strength	ASTM D2370	4,000 psi
Gloss @ 60° Angle	ASTM D523	92 - 95
UV Resistance (Gloss after 1000 hours, in QUV)	ASTM G154	87 - 89



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PRODUCT DATA SHEET