SHERWIN WILLIAMS | HIGH PERFORMANCE FLOORING

ELLADUR™ 5 POLYASPARTIC

PART A GP4810A01 **CLEAR**
PART B GP4810B01 **HARDENER**

Revised: February 28, 2023

PRODUCT INFORMATION

PRODUCT DESCRIPTION

ELLADUR 5 Polyaspartic is a glossy, clear, VOC compliant, aliphatic polyaspartic concrete floor coating that may be used as a light stable, high performance topcoat or as a multi-coat system. It provides excellent chemical resistance to oil, grease, and strong detergents and is quick-curing at room temperature, allowing many projects to be completed in a single day. Elladur 5 also cures well in cool conditions and may be field-tinted with Sherwin-Williams colorants.

Advantages:
- Excellent wear and chemical resistance
- Fast curing; cures in cool temperatures
- Outstanding thermal shock properties
- USDA compliant
- Resistant to ultraviolet light
- Tintable with Sherwin-Williams colorants

TYPICAL USES

Elladur 5 is ideal as primer, basecoat and topcoat within the Sherwin-Williams High Performance Flooring systems. It is frequently used in commercial, industrial and institutional applications where fast turnaround or cool conditions exist, such as:

- Hospitals, clinics, laboratories
- Food processing plants
- Schools and universities
- Detention and public safety buildings
- Warehouses and logistics operations
- Manufacturing plants and research departments
- Aviation and transportation facilities
- Hospitality and restaurants
- Grocery stores and retail establishments

SURFACE PREPARATION

New concrete must have a 28 day cure, and preferably a broom swept finish, prior to coating. In the case of older concrete flooring, remove all surface oils, paint, dust and debris. Prior to coating, make sure the surface is clean, passes the MVT test and the water drop test and that all surface defects have been repaired.

APPLICATION CONDITIONS

Elladur 5 should not be applied when the floor temperature is above 85°F (29°C) or below 35°F (2°C), or when within 5°F (2.8°C) of the dew point. Cooler temperatures require longer cure times. Consult your Sherwin-Williams representative for details.

PRODUCT CHARACTERISTICS

Color:	Clear
Sheen:	Gloss
Mix Ratio:	1:1 by volume
Weight Solids:	68.7%, mixed (ASTM D2369)
Viscosity:	172 cps (ASTM D2196)
VOC (ASTM D3960):	43.5 g/L ; 0.36 lb/gal

Recommended Spreading Rate per coat:

	Minimum		Maximum	
~Coverage sq ft/gal (m^2/L):	**100**	(2.5)	**400**	(9.8)

Drying Schedule:

	@ 35°F (2°C) 50% RH	@ 50°F (10°C) 50% RH	@ 77°F (25°C) 50% RH	@ 100°F (38°C) 50% RH
Dry Touch:	1 hour	50 minutes	30 minutes	15 minutes
Dry Tack:	2 hours	80 minutes	40 minutes	30 minutes
Dry Hard:	4.5 hours	2 hours	1 hour	40 minutes
To Recoat:				
minimum:			1 hour	
maximum:			30 hours	
Cure (foot traffic):	5 hours	2 hours	75 minutes	1 hour
Full Chemical Resistance:			7 days	

Pot life: 45 minutes (pint can sample at 77°F/25°C and 50% RH)

NOTE: The cure time will vary with cooler temperatures. Allow a minimum of 2 hours and a maximum of 24 hours between each step.

Shelf Life: 12 months, unopened
Store indoors at 32°F (0°C) to 95°F (35°C)

Flash Point: Part A: 166°F (74°C)
Part B: 132°F (56°C)

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060	70.8 mg loss
Adhesion	ASTM D4541	576 psi ; 100% concrete failure
Coefficient of Friction	ASTM D2047	0.35
Flexibility, 1/4" mandrel	ASTM D1737	Pass
Gloss, 60°	ASTM D523	90+
Hardness / Shore D	ASTM D2240	44
Impact Resistance	MIL D2794	>160
Tensile Strength, 4 mil DFT	ASTM D638	4,541 psi

ORDERING INFORMATION

Packaging: 1 gallon (3.78L) and 5 gallon (18.9L) containers

Weight: 9.68 lb/gal ; 1.2 Kg/L, mixed

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Mixing: In a clean, dry container, blend 1 part by volume of Resin Part A with 1 part by volume of Activator Part B. Mix thoroughly for 2-3 minutes, using a low speed mechanical mixer.

Elladur 5 may be field-tinted with Sherwin-Williams colorants. Add 1 pint Sherwin-Williams colorant to 2 gallons of blended Elladur 5 Clear, components A + B. Mix thoroughly.

When Using to Grout a Broadcast Surface:
1. Allow sufficient cure time so that material is cured hard enough to walk on without leaving an impression in the coating. Sweep or blow off excess broadcast. Sand or screen any high points until smooth. Vacuum clean.
2. 1st Grout Coat Application - Spread with a medium nap, solvent resistant roller and roller pan at no thicker than 100-400 SF/gallon, depending upon desired texture.
3. Optional 2nd Grout Coat Application - Repeat procedure outlined in step 2, however, note that less resin will be consumed in the 2nd grout coat, since the surface is now smoother. Spread Elladur 5 with a medium nap, solvent resistant roller and roller pan at 100-400 SF/gallon.

When Applying as a Stand Alone System:
1. Primer - Mix and apply, using a roller pan and a solvent resistant, medium nap roller, at 200 SF per gal. Pigmenting this step is optional.
2. Optional Broadcast Basecoat - Mix and apply using a roller pan and a solvent resistant, medium nap roller, at 100-400 SF per gal. While still wet, broadcast aggregate or flakes. Pigmenting this step is optional.
3. 1st Topcoat: Mix and apply, using a roller pan and a solvent-resistant medium nap roller at 100-400 SF per gal. Pigmenting this step is optional.
4. Optional 2nd Topcoat - Mix and apply, using a roller pan and a solvent resistant, medium nap roller, at rate of 100-400 SF per gal., depending on desired texture. Pigmenting this step is optional.

Note: Care should be taken to not over-work or apply too thick. When Elladur 5 is over-worked or applied too thick, micro-bubbling can occur. This will appear as a haze on clear Elladur 5 coats.

Optional Cove: Elladur 5 may be applied as a "painted on" cove. Tape off a straight cove line, apply a coat of primer and allow to cure. Then, apply a basecoat and broadcast desired decorative aggregate or flakes. Finish with two topcoats.

Instructions for Use over Existing Coatings: Examine the existing coating to ensure that it is well bonded to the concrete. Any loose coating must be completely removed. Feather any edges. Clean the entire floor thoroughly with detergent cleaner. The surface must be free of all dirt, oils, or other contaminants. After the floor has completely dried, sand the existing coating until a powdery residue is evident and all gloss is removed. Sweep or vacuum clean, and wipe with R2K5 to ensure good adhesion of the new system.

Note: When coating over existing coatings, a test patch is recommended to evaluate compatibility.

Note: Fisheyes may occur if floor does not receive a solvent wipe of R2K5. Do not use Xylene, Acetone or other solvents.

TINTING

Only tint with HPF Universal Colorants. Do not tint with GIS colorants. Use one pint of colorant per 2-gallon mix of Elladur 5 for all colors.

CHEMICAL RESISTANCE

For comprehensive chemical resistance information, consult the Chemical Resistant Guide and contact your Sherwin-Williams representative.

CLEANUP

Clean up mixing and application equipment immediately after use with R2K5. Observe all fire and health precautions when handling or storing solvents.

PERFORMANCE TIPS

It is best to apply Elladur 5 out of a roller pan using a solvent resistant, medium nap roller. Keeping the product in a mass in the bucket will give you the longest working time.

If a roller pan cannot be used, pour out onto the floor only what can be spread and backrolled within the next 2 minutes, keeping the remainder of product in the bucket. Then, pour out just the amount needed for the next section.

Note: It is important to maintain a wet edge. If the wet edge is lost, it is best to stop coating and allow the product to cure. After the product has cured, restart the coating process. A dry paint brush can be used to knock down the demarcation line at the restart point.

Note: Care should be taken not to over work or apply too thick. When Elladur 5 is over worked or applied to thick, micro-bubbling will occur. This will show itself as a haze on clear Elladur 5 coats.

SAFETY

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

MAINTENANCE

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact your Sherwin-Williams representative.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

WARRANTY

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