



## CLARUS™ LL PAVEMENT MARKING

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**Description** CLARUS LL is an polymer based solvent free, two component, thermosetting system designed to anchor to substrates such as asphalt and concrete as well as adhere to reflective media such as glass beads, elements and other devices for LongLife (LL) durability. It is free of multifunctional monomers such as TMPTA. Low profile of system limits damage due to plows.

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**Use** May be used for reflectorized pavement markings on asphalt, concrete and other surfaces along with reflective media. Can be used for new construction and maintenance with adequate surface preparation and as per specifications.

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**Advantages**

- Solvent free
- Resistant to chemicals
- Excellent adhesion to concrete and asphalt
- Excellent wetting and bonding capability to substrate and reflective media
- Suitable for manual applications of symbols and where continuous run is impractical

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**Technical Data\***

Property	Value	Test Method
Gel Time (60 grams)	8 to 10 minutes	ASTM C881
Bond Strength	> 250 psi	ACI 503 R
Tensile Strength	> 6000 psi	ASTM D 638
Wear resistance	< 80 mg	ASTM D 4060
Compressive Strength	> 12000 psi	ASTM D 695

*\* Samples cured at 77 °F. Results can vary and depend on mixing method, equipment, curing conditions, test equipment, sample handling, sample conditioning, consistency and technicians.*

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**Packaging**

- Mix Ratio by volume: 2 Volume Part A: 1 Volume Part B
- 15 Gallons (10 Part A and 5 Part B) Pails
- 150 Gallons (100 Part A and 50 Part B) Drum:
- IBC also available*

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**Limited Warranty:** P3 warrants this product to be free of any defects resulting from its design and manufacturing. All warranty claims shall be submitted in writing to P3 immediately upon discovery or before expiration of shelf life of product. Remedy is limited to replacement of materials purchased. P3 disavows any other representation or warranty, express or implied, or liability relating to the condition or use of the product and in no event shall P3 be liable to user or any third party for any direct or indirect consequential or incidental damages.

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**Surface** Clean to remove contaminants such as water, loose residual from grinding etc. Remove loose debris by vacuum or blow with dry compressed air. For best results, old markings and contaminants should be removed using scarification or grinding.

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**Application** Mechanical: Volumetric, positive displacement measuring, mixing and dispensing equipment must be used. Equipment shall be capable of conditioning components stored in independent tanks and consistently measure as per prescribed mix ratio, mix and dispense liquid to be sprayed on prepared surface mechanically. Equipment shall have capability to monitor proportions of two components as per manufacturer and will be capable of mechanically distributing reflective media evenly across width of markings. Static mixing and impingement are acceptable methods of mixing. *Mil thickness and bead application rate shall be according to applicable specifications.*

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**Caution** Part A: Contains Epoxy Resin. Skin and eye irritant. Prolonged contact can cause sensitization. Part B: Contains Corrosive Amines. Skin and eye irritant. Can cause severe burns when in contact with skin and eyes. Use proper clothing and respirators. Consult Safety Data Sheet for details.

**First Aid** Remove contaminated clothing. Wash thoroughly with water and soap. If contact with eyes, irrigate with water for 15 minutes and consult physician. Remove to ventilated area. If ingested, do not induce vomit, seek medical attention immediately. Consult Safety Data Sheet for details.

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**Limitations** Do not dilute with any solvent or thinner  
Apply when surface, ambient and windchill conditions are 35°F and rising for proper cure  
Liquid Components: 140°F Maximum

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**Keep out of reach of children. Not for internal consumption. For industrial use only. Keep containers properly closed.**

All information and recommendations provided by P3 are in good faith based on P3 current knowledge and experience of its products when handled properly and according to P3 instructions. P3 assumes no responsibility of factors outside of its control that would impact result and behavior of P3 products. User of P3 products must test these products for suitability for the intended application and purpose. P3 reserves the right to change properties of its products without notice. Please read P3 product Safety Data Sheet entirely and thoroughly prior to using P3 products. It is intended for your safety. Use proper Personal Protective Equipment per Safety Data Sheet. The VOC contents as per EPA Method 24 (40 CFR 60 Appendix A) do not exceed 150 g/L.

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