






Introducing Perenniol™, a lower viscosity and highly catalytic Mannich polyol made principally from rapidly-renewable Cashew Nutshell Liquid (CNSL). For use in rigid foam applications such as closed cell wall and roof insulation, pour in place, concrete jacking and soil stabilization.

Rapid Reaction

Perenniol™ exhibits significantly faster cream and gel times with built-in tertiary amine Mannich structure that allows for the reduction of fugitive amine catalysts. The Mannich polyols have significant renewable carbon content and are phenol and nonylphenol-free.

-  Fire resistant
-  Better hydrophobicity
-  Rapidly renewable



Superior Safety


Perenniol™ naturally provides unique rapid renewability, hydrophobicity and anti-bacterial properties. It contains up to 24% aromatic content to provide excellent burning resistance and compatibility with aromatic polyester polyols.



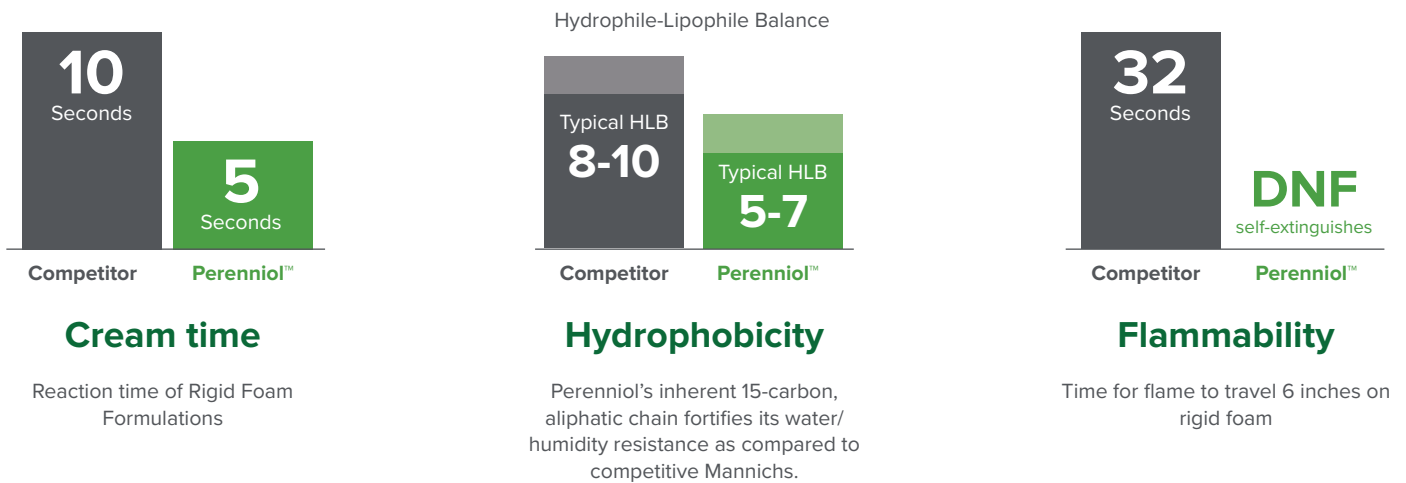
Rapid reaction. **Proven performance.**

Made in the USA by Palmer International

Perenniol™ Typical Properties

	Functionality (average)	Hydroxyl Number (mg KOH / g)	Amine Value (mg KOH / g)	Viscosity (cP @ 25°C)	Specific Gravity (@ 25°C)	Moisture (%)	Color (Gardner)
1800-430 	3	430	132	2,900	1.01	0.5	12
1800-470	4	470	172	2,200	1.04	0.5	12
1810-375	3.25	375	141	18,000	1.04	0.5	18

Proven Performance



Perenniol™ is made in the USA by Palmer International, the global leader in CNSL and CNSL derivatives for over 70 years, in an ISO 9001-certified, vertically-integrated manufacturing site. Perenniol™ has been thoroughly tested by a third-party laboratory with outstanding results compared to the competition.

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