

Genamin™ Gluco 50

SUGAR-BASED NEUTRALIZER FOR
COATINGS AND BEYOND APPLICATIONS

Genamin™ Gluco 50 is a sugar-based neutralizer specifically designed for architectural paints that helps maintain pH stability and overall paint performance over time. Derived from renewable glucose sources, its sustainability profile enables them to outperform in paint applications and beyond.

Traditional neutralizers used in paint formulations present significant challenges for manufacturers. Sodium hydroxide (NaOH), while effective at pH adjustment, can cause severe water sensitivity in films and often contributes to poor freeze-thaw stability in latex paints. Ammonia is labelled as hazardous material in many regions (e.g. H314), creating regulatory compliance challenges and negative consumer perception of products containing this ingredient. 2-amino-2-methyl-1-propanol (AMP) faces the same labeling aspects as ammonia, while also having VOC contributions that make it increasingly difficult to meet stringent regulations in many markets. Additionally, all three neutralizers lack the multifunctional benefits that newer alternatives like Genamin™ Gluco 50 offer, such as compatibility enhancement and stabilization properties, making them increasingly less attractive options for modern, sustainable paint formulations.

KEY BENEFITS



Neutralizer

Adjusts and stabilizes pH on lacquers and dispersion paints without any adverse effect on paint stability



Natural

Derived from wheat or corn glucose



Compatibilizer

Reduces rub-out and increasing tinting strength in water and solvent-based paints



Sustainability

Low VOC/SVOC, APEO, NPEO, TSPEO-free* and no organic solvent

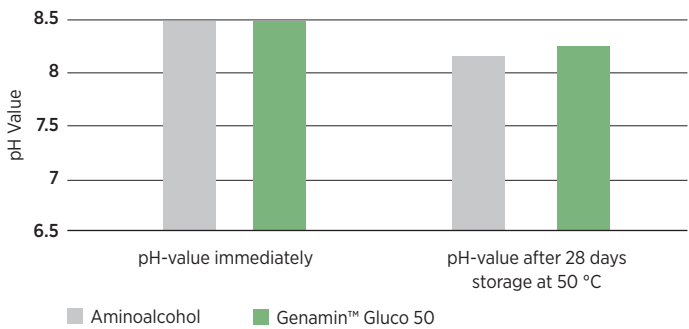
* VOC = volatile organic content; SVOC = semi-volatile organic content; APEO = alkylphenol ethoxylate; NPEO = nonylphenol ethoxylate; TSPEO = tristyrylphenol ethoxylate

Genamin™ Gluco 50

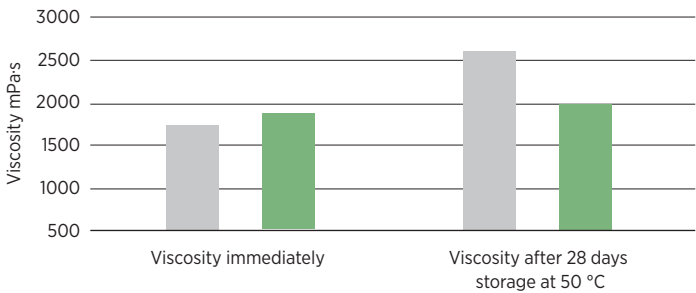
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Genamin™ Gluco 50 vs. another amino-alcohol (AMP) with the same active concentration in semi-gloss lacquers demonstrates constant pH and viscosity over warm storage.

pH assessment in semi-gloss lacquers after preparation and storage after 28 days at 50 °C



Viscosity measurements in semi-gloss lacquers after preparation and storage after 28 days at 50 °C

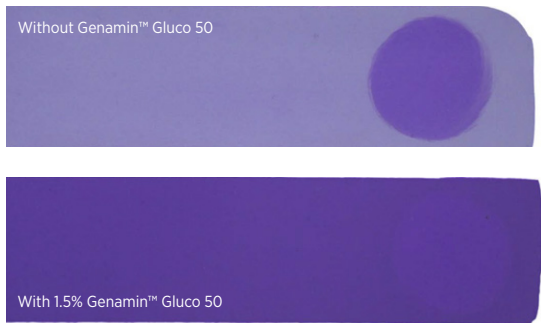


Formulation	Alkyd lacquer	GENAMIN™ GLUCO 50
Pure alkyd lacquer	100%	0
Alkyd lacquer + Genamin™ Gluco 50*	98.5%	1.5%

Genamin™ Gluco 50 can be used as a compatibility promoter in alkyd-based systems to improve compatibility with aqueous pigment preparations. The benefits can be seen from our example preparation using PV 23.

The upper image shows that the preparation is not compatible with the solvent-based alkyd lacquer, leading to low color strength and strong rub-out.

The lower image shows what happens when 1.5% Genamin™ Gluco 50 is added to the alkyd lacquer before tinting: Rub-out has all but disappeared, with only a slight difference in shade left, and the violet color of the pigment comes out much stronger.



**Interested in testing our product?
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