

Abstract

NECOWEL 4350 – New versatile alkyd emulsion with stain blocking properties

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The main task of stain blocking wall paints and wood coatings is the protection of painted surfaces from impurities that are located underneath the coating. Over time, these impurities tend to migrate through the coating and become finally visible on the surface. This migration of unwanted components through the coating to the surface, called “bleeding”, needs additional re-work to get covered, is time-consuming and is therefore directly coupled to higher costs. Stain blocking binders prevent bleeding of such dyes by catching these impurities irreversibly before migrating to the surface.

NECOWEL 4350 is a waterborne alkyd emulsion based on renewable raw materials, that provides a well-balanced ratio between anionic and cationic moieties which attack ionic dyes and impurities at the beginning and prevents therefore the migration through the coating to the surface. This presentation focuses on the use of NECOWEL 4350 as active stain blocking binder and its application on walls as well as on wooden substrates. It explains the high stain blocking efficiency towards different dyes and tannins. With these results, NECOWEL 4350 is ideally suited as binding agent for the formulation of stain blocking primers, wall paints and also for wood coatings.