

Laboratory stirrer

The viscosity of formulations with Dispercoll® S is readily adjustable so that the adhesives can also be applied to vertical surfaces.

If you have any further questions please contact:
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Sticks faster than you might expect

Nanoparticle additives for waterborne adhesives with significantly higher initial strength

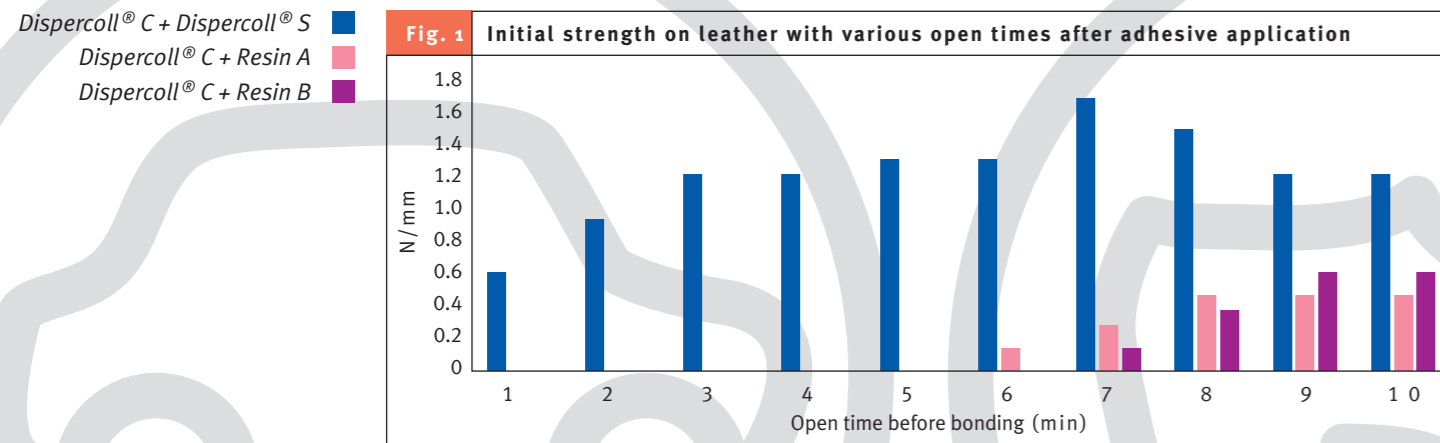
Dispercoll® S: Nanotechnology for heavy-duty adhesive dispersions

Dispercoll® S – the superior one-component adhesive technology

With the new Dispercoll® S nanoparticle additives, Bayer Polymers customers have many new possibilities in the formulation of aqueous adhesive dispersions. Dispercoll® S is particularly well suited as an additive for the production of polychloroprene adhesives based on Dispercoll® C dispersions, but can also be combined with other aqueous materials such as Dispercoll® U polyurethane dispersions to formulate adhesives with an outstanding set of properties that will have value in furniture, automotive, construction and footwear applications.

Good initial wet strength on many substrates

One of the most interesting properties of adhesives formulated with Dispercoll® S is certainly their outstanding initial wet strength. In the case of textiles or leather, for example, the adhesives have such high wet strength that the materials can be processed immediately.



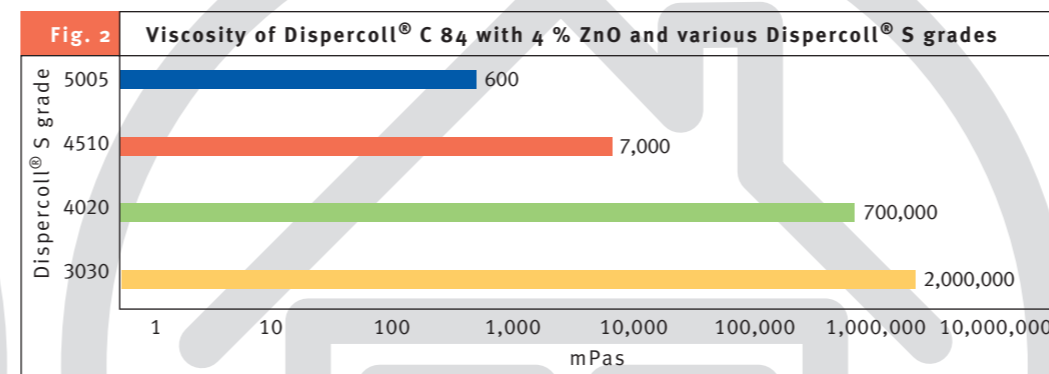
All Dispercoll® S grades at a glance

Dispercoll® S	Concentration (%)	Density (g/cm ³)	Spec. surface (m ² /g)	Particle size (nm)
Dispercoll® S 5005	50	1.39	50	55
Dispercoll® S 4510	45	1.34	100	30
Dispercoll® S 4020	40	1.30	200	15
Dispercoll® S 3030	30	1.21	300	9

Application-specific viscosity

The viscosity of formulations containing Dispercoll® S is adjusted through the specific selection and quantity of the respective Dispercoll® S grades (the different grades can also be mixed together). The viscosity can be specifically lowered through the addition of electrolytes. The net result is a broad range of adhesives from paste-like to liquid consistency with a very low tendency to sedimentation even on prolonged storage.

With the various Dispercoll® S grades, any desired viscosity range can be adjusted.

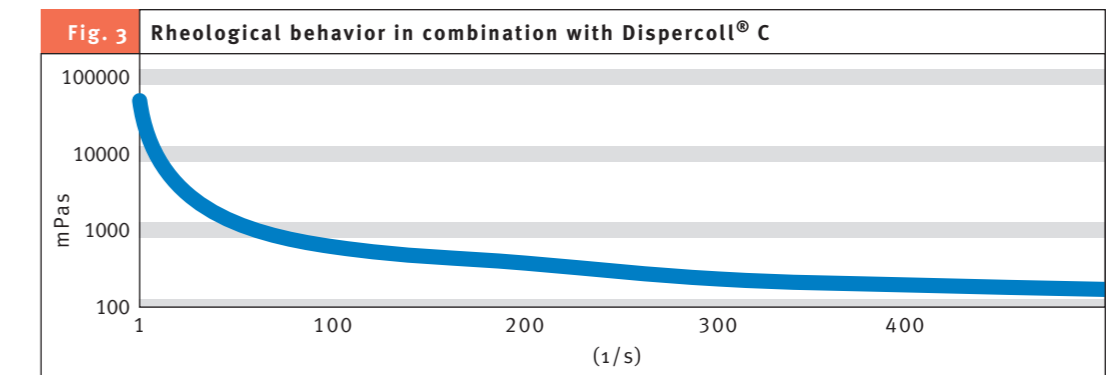


Outstanding storage properties

Ready-formulated adhesive mixtures with Dispercoll® S can be stored without problem over a long period – without any sedimentation or change in viscosity.

Excellent application properties

Because the viscosity of these adhesives can be adjusted to suit the particular end-use and because of their pronounced structural viscosity, the Dispercoll® S adhesive formulations are very easy indeed to apply. The application of such high-viscosity adhesives even to vertical surfaces is no problem.



Superior heat resistance of the bonded substrates

Using Dispercoll® C grades with a high hydroxyl content like Dispercoll® C 2325 together with Dispercoll® S produces adhesive formulations with a level of heat resistance that has up to now only been achieved using two-component technology. This makes Dispercoll® S the ideal choice for applications where high heat resistance is included in the specifications for one-component systems.

