

Title (en)  
COMPOSITION FOR THE FINISHING OF FIBRES

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Application  
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Abstract (en)  
[origin: US4880906A] A finishing agent for finishing fibers or fiber products is disclosed. The agent is a mixture of the following components:  
(a) 34 to 99% by weight of a polymer of the general formula  $\text{CH}_2\text{CHCH}_2\text{O}(\text{C}_2\text{H}_4\text{O})_q(\text{C}_3\text{H}_6\text{O})_r + \text{TR}$  in which  $\text{R}_1$  is a z-hybric aliphatic alcohol,  $z=2$  to  $9$ ,  $m=20$  to  $75$ ,  $n=0$  to  $10$ ,  $p=0$  to  $3$ , (b) 0 to 55% by weight of a copolymer, obtained by copolymerization of (b1) one mole of a macromonomer of the general formula  $\text{CH}_2\text{CHCH}_2\text{O}(\text{C}_2\text{H}_4\text{O})_q(\text{C}_3\text{H}_6\text{O})_r + \text{TR}$  in which  $q=5$  to  $75$ ,  $r=0$  to  $10$ ,  $s=0$  to  $3$ , with (b2) 2 to 12 moles of a vinyl ester of the general formula  $\text{CH}_2=\text{CHOCOR}_2$ , in which  $\text{R}_2$  is an alkyl group with 1 to 4 carbon atoms, (b3) 1 to 6 moles of N-vinylpyrrolidone, (b4) 0 to 6 moles of an acrylate or methacrylate ester of the general formula  $\text{CH}_3=\text{CR}_3\text{-COOR}_4$ , in which  $\text{R}_3=\text{H}$  or  $\text{CH}_3$ ,  $\text{R}_4$  is an alkyl group with 1 to 4 carbon atoms, the quotient of the average molecular weight of the monomer (b1) and the number of moles of the monomers (b2), (b3) and (b4) being 20 to 500 and (c) 1 to 35% by weight of a compound, which is reactive with respect to the oxiran group and brings about the cross linking reaction, the sum of the components (a), (b) and (c) yielding 100% by weight. Especially preferred is a finishing agent mixture of 34 to 73% by weight of component (a) 24 to 55% by weight of component (b) and 2 to 30% by weight of component (c) the sum of components (a), (b) and (c) yielding 100% by weight. The invention also discloses a finishing composition in the form of an aqueous solution comprising 0.1 to 10% by weight of the finishing agent as active ingredient with the remainder being water. A method for fixing fibers and fiber products with the inventive composition is also disclosed. The finishing agent and composition of the invention improve the handle, the hydrophilicity and the soil release of treated textile material. At the same time, the soilability, graying and the tendency to develop electrostatic charges are reduced.

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