

## How to Prepare Solutions of METHOCEL™ in Nonaqueous Solvents and Nonsolvent Media

### SOLUBILITY IN NONAQUEOUS SOLVENTS

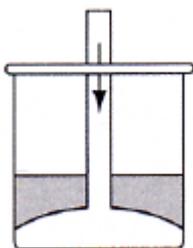
The solubility of METHOCEL™, premium cellulose, ethers in nonaqueous media varies according to the nature and quantity of substituent groups on the anhydroglucose chain. When using a water-miscible, organic solvent, such as alcohol or glycol, use a ratio of at least 5 to 8 parts of solvent to 1 part of METHOCEL™.

### DISPERSION IN NON-SOLVENT MEDIA

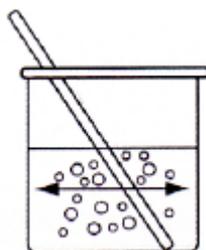
Untreated METHOCEL™ may also be dispersed in non-solvent media such as vegetable oil, propylene glycol, polyethylene glycol, glycerine, corn syrup and high-fructose corn syrup. A ratio of 5 to 8 parts non-solvent to 1 part METHOCEL™ is recommended to obtain a fluid slurry. The dispersion of METHOCEL™ in non-solvent medium may then be added to cold water, or the cold water may be added to the dispersion.

### DISPERSION TECHNIQUE

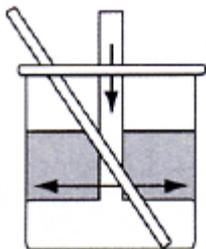
1. Add the METHOCEL™ to the non-solvent. A ratio of 5-8 parts non-solvent to 1 part METHOCEL™ is recommended to obtain a liquid slurry.



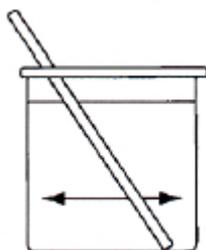
2. Agitate the mixture and METHOCEL™ powder until the particles of METHOCEL™ are evenly dispersed.



3. The dispersion of METHOCEL™ in non-solvent medium may be added to cold water, or the cold water may be added to the dispersion.



4. Continue mixing until the METHOCEL™ powder is completely hydrated and the solution is smooth. You can now add the remaining ingredients in your formulation.



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For more information, contact your Colorcon representative or call:

North America  
**+1-215-699-7733**

Europe/Middle East/Africa  
**+44-(0)-1322-293000**

Asia Pacific  
**+65-6438-0318**

Latin America  
**+54-11-4552-1565**

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