CLAIMS

1. A dispersion assistant for suspension polymerization, comprising a polyvinyl alcohol-based polymer having an acetal group, which has an olefinic unsaturated double bond, wherein the polyvinyl alcohol-based polymer has a saponification degree of less than 60 mol%.

2. The dispersion assistant for suspension polymerization of claim 1, wherein the degree of modification of the polyvinyl alcohol-based polymer by the acetal group-containing unit is 0.01 to 20 mol% relative to all the monomer units in the polyvinyl alcohol-based polymer.

3. The dispersion assistant for suspension polymerization of claim 1, wherein the average polymerization degree of the polyvinyl alcohol-based polymer is 120 to 800.

4. The dispersion assistant for suspension polymerization of claim 1, further comprising a water-soluble polymer in a polymerization system.

5. The dispersion assistant for suspension polymerization of claim 4, wherein the water-soluble polymer is a polyvinyl alcohol-based polymer having a saponification degree of 65 to 90 mol%.

6. A method of polymerizing a vinyl-based monomer comprising contacting the dispersion assistant for suspension polymerization of claim 1 with a vinyl-based monomer under conditions that promote polymerization.

7. The method of claim 6, wherein the vinyl-based monomer comprises vinyl chloride.

8. An aqueous liquid containing the dispersion assistant for suspension polymerization of claim 1.

9. A production method of a vinyl-based resin, comprising subjecting a vinyl-based monomer to suspension polymerization in the presence of the dispersion assistant for suspension polymerization of claim 1.

10. The production method of claim 9, wherein the suspension polymerization is performed further in the presence of a water-soluble polymer.

11. The production method of claim 10, wherein the water-soluble polymer is a polyvinyl alcohol-based polymer having a saponification degree of 65 to 90 mol%.

12. The production method of claim 9, wherein the vinyl-based monomer comprises vinyl chloride.

13. A vinyl-based resin, which comprises as a polymerization component, a polyvinyl alcohol-based polymer having an acetal group, which has an olefinic unsaturated double bond, wherein the polyvinyl alcohol-based polymer has a saponification degree of less than 60 mol%.

14. The vinyl-based resin of claim 13, wherein the degree of modification of the polyvinyl alcohol-based polymer by the acetal group-containing unit is 0.01 to 20 mol% relative to all the monomer units in the polyvinyl alcohol-based polymer.

15. The vinyl-based resin of claim 13, wherein the average polymerization degree of the polyvinyl alcohol-based polymer is 120 to 800.

16. The vinyl-based resin of claim 13, wherein said vinyl-based resin is a vinyl chloride-based resin.

17. The dispersion assistant for suspension polymerization of claim 1, wherein the polyvinyl alcohol-based polymer has a saponification degree of 56.5 mol% or less.

18. The dispersion assistant for suspension polymerization of claim 1, wherein the polyvinyl alcohol-based polymer does not have an acetal group which is made by an aliphatic monoaldehyde not having any olefinic unsaturated double bond.