CLAIMS

1. A blended fluoropolymer dispersion, characterized by:

polytetrafluoroethylene (PTFE) being a low molecular weight polytetrafluoroethylene (PTFE) having a number average molecular weight (M_n) of less than 500,000 and ~~having~~ a first melt temperature (T_m) of 332° C or less, in the form of a liquid dispersion of particles having a mean particle size of 1.0 microns (μm) or less~~, said dispersion obtained via emulsion polymerization and without being subjected to agglomeration, thermal degradation, or irradiation~~; and

methylfluoroalkoxy (MFA) in the form of a liquid dispersion of particles having a mean particle size of 1.0 microns (μm) or less, said composition having, based on the total solids of said PTFE and MFA, a MFA content of 63 wt.% to 70 wt.% and a PTFE content of 30 wt.% to 37 wt.%.

2. A method of coating a substrate, characterized by:

applying the blended fluoropolymer composition of Claim 1 to the substrate; and heat curing the blended fluoropolymer composition.

3. The method of Claim 2, wherein said blended fluoropolymer composition lacks inorganic fillers.

4. The method of Claim 2 or Claim 3, wherein said blended fluoropolymer composition is characterized in that said polytetrafluoroethylene (PTFE) dispersion is obtained via emulsion polymerization and without being subject to agglomeration, thermal degradation or irradiation.

45. The blended fluoropolymer composition of claim 1, characterized in that said polytetrafluoroethylene (PTFE) dispersion has a mean particle size selected from the group consisting of 0.9 microns (μm) or less, 0.75 microns (μm) or less, 0.5 microns (μm) or less, 0.4 microns (μm) or less, 0.3 microns (μm) or less, and 0.2 microns (μm) or less.

~~5~~6. The blended fluoropolymer composition of claim 1, characterized in that said polytetrafluoroethylene (PTFE) has a first melt temperature (T_m) selected from the group consisting of 330° C or less, 329° C or less, 328° C or less, 327° C or less, 326° C or less, and 325° C or less.

7. The blended fluoropolymer composition according to any one of claims 1, 5 or 6, characterized in that said polytetrafluoroethylene (PTFE) dispersion is obtained via emulsion polymerization and without being subject to agglomeration, thermal degradation or irradiation.

~~6~~8. A fluoropolymer powder, obtained from the blended fluoropolymer composition of claim 1.

9. The fluoropolymer powder of claim 8, wherein said blended fluoropolymer composition is characterized in that said polytetrafluoroethylene (PTFE) dispersion is obtained via emulsion polymerization and without being subject to agglomeration, thermal degradation or irradiation.