[CLAIMS]

1. Powder paint compositions for baking, comprising

fluororesin where one or more types of porous coordination polymer (PCP) / metal-organic framework (MOF) formed by coordinate bonds between organic ligands and central metals disperse, wherein said porous coordination polymer (PCP) / metal-organic framework (MOF) has the specific surface area (BET specific surface area) larger than 900.00 m^2/g.

2. The powder paint compositions for baking of Claim 1,

wherein said porous coordination polymer (PCP) / metal-organic framework (MOF) is in a powder form,

wherein the 5% decomposition temperature of said porous coordination polymer (PCP) / metal-organic framework (MOF) from 200 ℃ under the condition in ambient air measured by Thermogravimeter-Differential Thermal Analysis (TG-DTA) is higher than the melting point of said fluororesin, and

wherein 0.02 wt% - 20.00 wt% of said porous coordination polymer (PCP) / metal-organic framework (MOF) is formulated with respect to entire said paint compositions.

3. The powder paint compositions for baking of Claim 1 or 2,

wherein said fluororesin is thermoplastic,

wherein said fluororesin is insoluble in both polar solvents and nonpolar solvents, and

wherein 70.00 wt% - 99.98 wt% of said fluororesin is formulated with respect to entire said paint compositions.

4. The powder paint compositions for baking of any one of Claims 1 to 3, wherein the formulation amount of said porous coordination polymer (PCP) / metal-organic framework (MOF) is 0.10 wt% - 5.50 wt% with respect to entire said paint compositions.

5. The powder paint compositions for baking of any one of Claims 1 to 4,

wherein said central metals are present as one or more types of metal ions selected from a group consisting of Al^{3+}, Co^{3+}, Co^{2+}, Ni^{2+}, Ni^{+}, Cu^{2+}, Cu^{+}, Zn^{2+}, Fe^{3+}, Fe^{2+}, Ti^{3+}, and Zr^{4+}, and

wherein said metal ions are present in said porous coordination polymer (PCP) / metal-organic framework (MOF) by coordinately binding to said organic ligands.

6. The powder paint compositions for baking of any one of Claims 1 to 5,

wherein at least one of said central metals carries one or more anions, and

wherein said central metals are present in said porous coordination polymer (PCP) / metal-organic framework (MOF) by coordinately binding to said organic ligands.

7. The powder paint compositions for baking of Claim 6, wherein said anions comprise one or more types of anions selected from a group consisting of OH^{-}, CO_3^{2-},

and O^{2-}.

8. The powder paint compositions for baking of Claim 6 or 7, wherein at least one of said central metals forms oxo structures together with said anions.

9. The powder paint compositions for baking of any one of Claims 1 to 8,

wherein said organic ligands comprise one or more types of organic ligands selected from a group consisting of 1,4-benzenedicarboxylic acid, 1,3,5-benzene tricarboxylic acid, 4,4'-bipyridyl, imidazole, 1,3,5-tris(4-carboxyphenyl) benzene, fumaric acid, terephthalic acid, and maleic acid.

10. The powder paint compositions for baking of any one of Claims 1 to 9, wherein said porous coordination polymer (PCP) / metal-organic framework (MOF) provides a gas absorption feature.

11. The powder paint compositions for baking of Claim 10, wherein said gas is a corrosive gas comprising at least hydrogen chloride.

12. The powder paint compositions for baking of any one of Claims 1 to 11, wherein said porous coordination polymer (PCP) / metal-organic framework (MOF) has pores with the opening area of a pore being 0.15 nm^2 - 7.00 nm^2.

13. The powder paint compositions for baking of any one of Claims 1 to 12, comprising

one or more types of hydrophobic porous coordination polymer (PCP) / metal-organic framework (MOF), and

one or more types of hydrophilic porous coordination polymer (PCP) / metal-organic framework (MOF).

14. The powder paint compositions for baking of any one of Claims 1 to 13, wherein the formulation amount of said fluororesin is 75.00 wt% - 90.00 wt% with respect to entire said paint compositions.

15. The powder paint compositions for baking of any one of Claims 1 to 14, wherein said fluororesin comprises one or more types of fluororesins selected from a group consisting of PFA, FEP, ETFE, PCTFE and ECTFE.

16. The powder paint compositions for baking of any one of Claims 1 to 15, further comprising one or more types of additives selected from a group consisting of PPS, PEEK and PES.

17. Liquid paint compositions for baking, where the powder paint compositions for baking of any one of Claims 1 to 16 disperse in a solvent.

18. A coating film comprising the powder paint compositions for baking or the liquid paint compositions for baking of any one of Claims 1 to 17.

19. The coating film of Claim 18, having the coating film thickness of 40 μm -

5000 μm.

20. A coated object, having a base material, a primer layer formed over said base material, and a single-layered or multiple-layered fluororesin coating film layer formed over said primer layer,

wherein said fluororesin coating film layer is a coating film of Claim 18 or 19.