CLAIMS

1. A mortar composition for protecting surfaces against corrosion, said composition comprising:

a hydraulic binder of calcium aluminate type;

a calcium aluminate aggregate;

wherein the binder/aggregate ratio is lower than 0.13 (by weight);

such that the composition is in the form of a dry preparation having a particle size distribution of less than 800 µm..

2. The mortar composition according to claim 1, also comprising a source of alumina soluble at pH 3 i water.

3. The mortar composition according to any of the preceding claims having a total alumina content of between 35 and 70 % by dry weight of the mortar composition.

4. The mortar composition according to any of the preceding claims, such that it comprises fines.

5. The mortar composition according to any of the preceding claims, such that it comprises one or more additives.

6. The composition according to any of the preceding claims also comprising 10 to 20 % water (by weight).

7. A protective layer for a corroded surface or likely to be corroded, said layer comprising the mortar composition according to any of claims 1 to 6 applied to all or part of said surface.

8. The layer according to claim 7, such that the thickness of said layer is between 2 and 10 mm.

9. The layer according to claim 7, such that the surface is a smooth surface or a rough surface.

10. The layer according to claim 7, such that the layer adheres to any concrete surface condition, for example a smooth concrete surface.

11. The layer according to any of claims 7 to 10, such that the surface is corroded or likely to be corroded by H_2S.

12. A method for preparing a protective layer for a surface likely to be corroded according to any of claims 7 to 10, comprising:
applying said mortar composition according to any of the claims to all or part of said surface, and
hardening said layer thus obtained.

13. The method according to claim 12, such that application is performed by spraying.

14. A sewerage plant comprising a protective layer according to any of claims 7 to 10 on all or part of one or more corroded surfaces or likely to be corroded.

15. Use of a composition according to any one of claims 1 to 6 to protect a surface from corrosion by H_2S.