



Paramount Minerals and Chemicals Limited

(An ISO 9001- 2000 Certified Company)

Parawhite P Powder

Chemical Description	Tetrasulphonic Derivative of 4,4'-diamino-stilbene-2,2'-disulphonic acid
Ionicity	Anionic
Shade	Bluish, virtually neutral white
Substantivity	Good
Form supplied	Yellowish powder
Acid resistance	Good
Solubility	25° C 285 g/l 98° C 400 g/l
Storage stability	60 months
Recommended for Use	In the pulp for sized and filled papers. Surface application in the size or film press. Use in coatings containing carriers.

Remarks

Dust free formulation with a high active ingredient content. Notes on safety: see safety data sheet.

Application

Pulp

With its outstanding properties, PARAWHITE P can be used universally for brightening sized and filled papers. Its good resistance to acids and sizing ensure problem-free processing even at low pH values. PARAWHITE P can be added to the pulp in amounts of up to 0.4 %. PARAWHITE P should preferably be used in dissolved form. However, the good solubility of the product means that the granules can also be scattered into the pulper or machine chest provided they are then mixed in thoroughly. To obtain an optimum brightening effect in sized papers, it is advisable to monitor the quantum of fluorescent whitening agent before the aluminium sulphate or other cationic additives.

Surface brightening

PARAWHITE P is highly suitable for surface brightening in the presence of starch. PARAWHITE USP-AF and VSP LIQUID should be used for high white qualities.

Pigmented coatings

Good brightening effects are also obtained with PARAWHITE P in pigmented coatings with starch, CMC and polyvinyl alcohol as carriers. The addition is normally not more than 0.3 %.

Toxicology

The PARAWHITE brands have been subjected to extremely comprehensive toxicological tests. These show clearly that the products do not constitute a health hazard provided they are used for the recommended purpose and the usual safety precautions as specified in the regulations on health and safety at work are taken. The areas covered by the tests include acute and chronic toxicity, carcinogenicity mutagenicity, skin and mucous membrane compatibility and sensitisation. No harmful effect on fish has been observed at the concentrations occurring in water and effluent. Information on handling and on the ecological and toxicological behaviour is contained in the relevant safety data sheets.