



# **Paramount Minerals and Chemicals Limited**

(An ISO 9001- 2000 Certified Company)

## **Parawhite BA Powder**

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| Chemical Description | Derivative of 4,4'-diamino-stilbene-2,2'-disulphonic acid  |
| Ionicity             | Anionic  |
| Tint                 | Neutral, bluish to very slightly greenish white  |
| Substantivity        | Excellent  |
| Form supplied        | Yellowish powder   |
| Acid resistance      | Poor   |
| Solubility           | 25° C 100-150 g/l<br>98° C 250 g/l   |
| Storage stability    | 60 months  |
| Recommended for Use  | In the pulp for unsized and weakly acid or neutral sized papers. Use in coatings containing carriers |

### Remarks

When preparing stock solutions of PARAWHITE BA, soft or demineralised water should be used, as hard water may cause precipitation. Dust free formulation with a high active ingredient content. Notes on safety: see safety data sheet

### **Application**

#### **Pulp**

Because of their high substantivity, the PARAWHITE BA brands are suitable for brightening unsized papers even with soft water and low pulp concentrations. The same applies to neutral or alkaline sized papers. The PARAWHITE BA brands are also suitable for acid sized papers. At pH values of less than approx 5, the amount of PARAWHITE BA added should not be more than approx. 0.1 %. Where higher additions are required in this pH range, the PARAWHITE P brands are recommended. To obtain an optimum brightening effect, it is advisable to add the whitening agent before the aluminium sulphate or other cationic additives. PARAWHITE BA should first be dissolved in hot water.

#### **Surface brightening**

The PARAWHITE BA brands are not really suitable for surface brightening with starch in the size or film press. For this application we recommend PARAWHITE USP-AF and Parawhite VSP-AF Liquid.

### **Pigmented coatings**

The PARAWHITE BA brands are particularly suitable for coatings which contain PVA and/or CMC as carriers, the advantages being especially noticeable at higher additions. The PARAWHITE BA brands have also proved effective in coatings containing casein and protein. In this case, the addition is normally not more than 0.3 % The PARAWHITE BA brands are not suitable for brightening pigmented coatings based on starch. We recommend the PARAWHITE P brands for this application.

### **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.