



# **Paramount Minerals and Chemicals Limited**

(An ISO 9001- 2000 Certified Company)

## **Parawhite VK-AF Liquid**

<b>Chemical Description</b>	<b>Disulphonic Derivative of 4,4'-diamino-stilbene-2,2'-disulphonic acid</b>
<b>Ionicity</b>	<b>Anionic</b>
<b>Shade</b>	<b>Bluish Violet</b>
<b>Substantivity</b>	<b>Parawhite VK-AF Liquid is a high affinity Optical Brightener and is absorbed quickly on cellulosic fibres</b>
<b>Form supplied</b>	<b>Light Yellow to Dark Brownish liquid</b>
<b>Density at 25 deg C</b>	<b>1.18-1.20 g/cm cube</b>
<b>pH value 1% aqueous solution at 25-30 deg C.</b>	<b>8.50-9.50</b>
<b>Fastness</b>	<b>Parawhite VK-AF Liquid has good fastness to Light, Alkali and Chlorine. Stability to Alum is good at pH 5.5 and above</b>
<b>Miscibility at 10 deg C. and above</b>	<b>Can be mixed with water in all proportions</b>
<b>Viscosity at 25 Deg C</b>	<b>Maximum 50 mPa.s</b>
<b>Storage stability</b>	<b>2 years. Parawhite VK-AF Liquid is stable at temperatures above 0 deg C. At temperatures of less than 0 deg C. precipitation may occur, but the precipitate dissolves again on heating. This does not impair the effectiveness of the product.</b>
<b>Recommended for Use</b>	<b>In the pulp. Also may be used in some pigment coating formulations.</b>

### **Application in Paper**

**In the mass Parawhite VK-AF liquid should be added where the stock is vigorously agitated. for discontinuous addition, e.g. in the pulper, beater or mixing chest, prior dilution of Parawhite VK-AF liquid is necessary. It is advisable to prepare a highly dilute Parawhite VK-AF liquid solution and add it slowly to prevent mottling. Generally 0.2 to 0.3% Parawhite VK-AF liquid to the weight of the dry pulp is sufficient for the medium degree of whiteness. However, in special cases Parawhite VK-AF liquid up to 0.75% of the weight of dry pulp can be used to get very high degree of whiteness.**

**To obtain the highest yield with Parawhite VK-AF liquid, we recommend that the additions should be made in the following order:**

**Pulp**

**Fillers**

**Parawhite VK-AF liquid**

**Rosin size**

**Shading dyestuff**

**Alum**

### **Ecology/toxicology**

**The usual hygiene and safety rules for handling chemicals must be observed in storage, handling and use.**

**Median lethal dose in rats (LD50) is above 5000 mg/kg body weight. Tests with rabbits showed no irritant effect on the skin or mucous membranes.**