

## POLIVA EP-55

**POLIVA EP-55** is a medium particle size dispersion of vinyl acetate /veova copolymer emulsion, which is designed for use in a wide variety of decorative paints and surfaces finishing .

Paints based on **POLIVA EP-55** have improved wet scrub resistance, exterior durability and alkali resistance. In addition they are marked by excellent flow and outstanding stability over long storage time. **POLIVA EP-55** has in general very high compounding stability and may be blended with dry pigments and extenders in the formulation of high build coatings.

### Recommended applications:

- 1 - High quality, general purpose paints .
- 2 - Semi gloss interior paints .
- 3 - Durable paints for exterior masonry .
- 4 - Low cost, highly extended interior paints.

### Specifications:

<b>Viscosity at 25°C</b> (Brookfield viscometer, SP # 4, rpm 20)	<b>2000- 4000 cps</b>
<b>Total Solids content, %</b>	<b>54 ± 1</b>
<b>pH</b>	<b>4-5</b>
<b>Dispersing system</b>	<b>anionic/non-ionic</b>
<b>Free Monomer</b>	<b>0.1% max.</b>
<b>Particle Size</b>	<b>0.1 micron (max)</b>
<b>MFFT</b>	<b>9 °C</b>
<b>Specific Gravity of Emulsion @ 25°C</b>	<b>1.03 gm/cm<sup>3</sup></b>

## **FORMULATING NOTES**

### **COALESCING SOLVENTS**

All conventional coalescent solvents could be used successfully with **POLIVA EP-55** though the optimum level will vary for each solvent. The level of coalescent included has a marked influence on the scrub resistance of the system. It is considered essential to allow sufficient conditioning time before testing since any solvent retained in the film may create a misleading impression of wet abrasion resistance and consequently resin binding power.

### **THICKENERS:**

Traditional thickening agents may be used for viscosity modification of paints based on **POLIVA EP-55**, like HEC, urethanes or acrylic thickeners.

### **PIGMENTS:**

The choice of titanium dioxide is apparently unrestricted since various grades, both heavily-coated and general purpose, performed to a similar degree in terms of scrub resistance.

### **MISCELLANEOUS ADDITIVES:**

**POLIVA EP-55** systems are compatible with all generally available bactericides, fungicides and defamers and these additives should incorporate as the individual system requires.

### **GENERAL COMMENTS:**

In addition to high wet scrub resistance **POLIVA EP-55** also confers slight improvements to opacity and whiteness compared to styrene acrylic binders.

**POLIVA EP-55** characterized by UV and alkali resistance so there is no risk in using it with high PVC paints or in outdoors applications.

**Please stir well before use.**