

# Disperse AY- 45

A water-based coating system's preferred derivative of a series of extremely efficient, low viscosity dispersing agents  
Especially suitable for the dispersion of inorganic pigments and fillers



## Technical Data Sheet

### Chemical Nature:

Acrylic polymer sodium salt - SODIUM POLYCARBOXYLATE

### Physical Properties

The values listed on this data sheet do not represent specification limitations; rather, they describe typical properties.

<b>Form</b>	straw-colored liquid
<b>Solvent</b>	Water
<b>Density</b>	$\sim 1.25 \pm 0.05 \text{g/cm}^3$
<b>Solid</b>	$\sim 38\% \pm 3$
<b>pH</b>	$\sim 7.5 \pm 2$

### Applications

#### Coatings industry

- Disperse AY- 45 is an ideal dispersing agent for a wide range of water-based coatings. It can be used as supplied. It is based on an organic polymer and provides improved storage stability of both pigment dispersion and formulated paint when compared with inorganic dispersing agents, e.g. polyphosphate products.

The use of Disperse AY- 45 should be limited to pH 5 – 12 and temperatures lower than 70 °C.

### Recommended Dose

0.5% - 2% on total pigment weight.

You can utilise the suggested levels mentioned above for orientation. A number of laboratory tests are used to identify optimal values.

### **Incorporation and processing instructions**

Disperse AY- 45 should be added under stirring before adding pigments or fillers to the grind.

The optimum amount of dispersing agent required to form a stable dispersion strongly depends on the pigment's chemical nature, the particle surface and shape. The polymer base of the latex also plays a very important role.

In general, underdosing of the dispersing agent will lead to insufficient stability of the pigment dispersions. Likewise to other dispersing agents the formulator should apply 1.5 – 2.0 times the determined optimum level of dispersing agent to avoid storage problems

### **Usable Life and Storage:**

It should be kept at a temperature of 0 °C and 40 °C away from direct sunlight.