

# **ANTIFOAM E-10A**

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## Defoaming agent for Coating Color

Antifoam E-10A is recommended for use in Coating Color formulations.

Antifoam E-10A will eliminate existing foam, and also remain in the water to prevent further foam build up.

### **1. DEFINITION**

Self-Emulsifying Antifoamer developed in view of fighting foam in paper coating slurries.

### **2. TYPICAL PROPERTIES**

- |                              |                                  |
|------------------------------|----------------------------------|
| A. Type                      | : Compounded blend of phosphate. |
| B. Appearance                | : Light Yellow Liquid            |
| C. Active content            | : 100% Active                    |
| D. Ionic nature              | : Weak Anion (nearly Nonionic)   |
| E. Specific Gravity(at 25°C) | : 0.920 ± 0.02                   |
| F. Solubility                | : Readily dispersed in Water     |

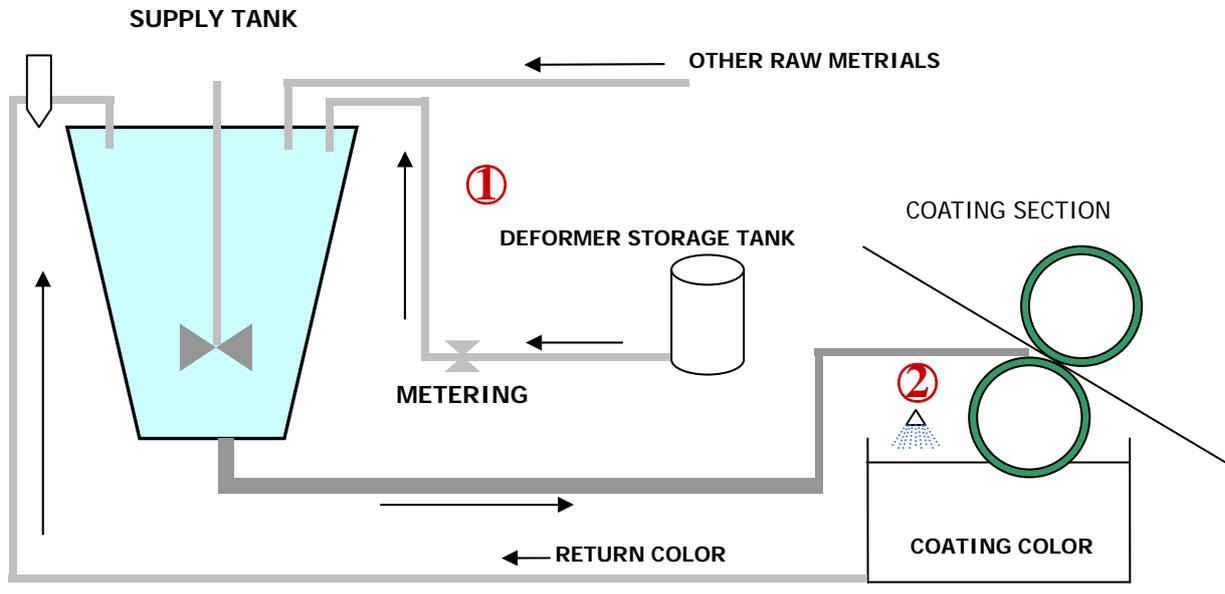
### **3. APPLICATION**

- A. Input Value : Using 0.1 – 1.0 part per Pigment.
- B. It is changeable depend on water condition.

### **4. ADVANTAGES**

- A. Liquid for easy handling
- B. Does not create Fish-Eyes
- C. Effective Antifoam
- D. Effective Deaerating performance

## 5. HOW TO INJECTION



### 1. Input Method

- ① Continuous Injection : Using undiluted solution (Use Metering Pump)
- ② Dilution In water Injection : Using promptly (Solution must be below 2)

\* It can be changeable as user's condition (Water, Engineers, and Machine etc)

## 6. CONDITIONS OF USE

Antifoam E-10A is marketed as a 100% active-matter-content product. Because of its low-viscosity liquid form, hence its practically instant water miscibility, it can be added to the baths to be defoamed either as is, or in the form of an emulsion obtained upon its diluting with water, while slightly agitating. Antifoam E-10A, as is, or in the emulsion form, can be fed by any conventional process : metering pump, drop-by-drop feeding, etc.....

If Antifoam E-10A stock solutions have been stored for a long time, it is recommended to stir them before use.

## 7. ANTIFOAM MECHANISM

Antifoam E-10A has a two-fold action : it acts as an antifoamer and a defoamer.

Hence it is nearly universal use in foaming media. It should be noted that the antifoaming properties of Antifoam E-10A are more useful than its defoaming properties.

Owing to its low tension, Antifoam E-10A very rapidly spreads at the liquid-gas interfaces, either on the bubble walls within the bath, or at the bath surface, where foam preferably forms.

Upon Antifoam E-10A spreading, an exchange takes place between the surfactant molecules responsible for formation and one of ingredients of Antifoam E-10A time-table. This is very valuable, since numerous antifoam, although they act according to varied mechanisms, all lose their antifoaming power upon storing.

## 8. PROPERTIES PERTAINING TO APPLICATION

- A. Owing to its very good water disperse ability, Antifoam E-10A, when it is added to coating formulation, has no detrimental effect upon the uniformity and the appearance of the resulting coating, it does not induce the formation of "FISH EYE" and "CRATERS", which have a deleterious effect on the regularity and sharpness of subsequent printing.
- B. The antifoaming action of Antifoam E-10A is durable. Therefore, the addition of new amounts of Antifoam E-10A is not necessary as long as the same bath is used.
- C. Antifoam E-10A efficiency is not impaired by pH variations : Antifoam E-10A retain its antifoaming power all the range of pH value.
- D. Antifoam E-10A efficiency is not impaired by a temperature rise : on the contrary, its antifoaming power is noticeable improved by such a rise.
- E. Because of its very weakly anionic(nearly nonionic) polarity, Antifoam E-10A can be introduced into most media.
- F. Whatever the polarity of the medium is.

## 9. COMPATIBILITY

Antifoam E-10A is compatible with all clay coating and size press additives.

## 10. STORAGE

- A. Avoid direct rays of light & high temperatures
- B. Storage indoors at 5 – 30°C
- C. Sediments are possible.