



Anticaking cum Colouring Agent for Water Soluble Fertilizers & Micronutrients

- Anticaking Agent available in Colourless as well as in various colours Red, Green, Blue, Brown, Yellow and customer desired colour shades.
- Prevents Moisture absorbence
- Retains free flowability of Water Soluble Fertilizers
- Helps to mask the ingredients of the Water Soluble Blends
- Helps to segregate various blends very easily
- Gives unique identity to the Specialised Water Soluble Fertilizer in the market
- Easy for application in the blender
- Cost effective



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INDO
AMINES
AMERICAS LLC



Caking of Water Soluble Fertilizers and Micronutrients:

Water Soluble Fertilizers and Micronutrients are crystalline mixtures of various salts depending on their composition. These mixtures have low critical humidity as compared to the individual salts therefore they face severe caking problems during storage as they readily absorb moisture from the atmosphere. Therefore, these types of fertilizers are coated with Anticaking Agent to keep them in free flow condition.

Coloring of Water Soluble Fertilizers and Micronutrients:

The new trend for Water Soluble Fertilizers is also giving them identifying colors like red, green, orange, yellow, etc. Every company manufactures it in different colors and different nutrient combinations that are identified with different colors.

Anticaking cum Coloring Agent by Indo Amines:

Indo Amines have introduced their latest types of Anticaking Agent and Anticaking cum Coloring Agents for 100% Water Soluble Fertilizers. These Anticaking Agents are Surfactant based which not only impart Anticaking Property but are also useful for providing a good foliar spray. The surfactants used have a unique spreading property and it ensures that the sprayed diluted fertilizer, clings to the leaves and also cover the entire leaf area, thus making the fertilizer available to the plant for their better growth. The colors used in the Anticaking cum Colouring Agent formulation are selective and non-toxic in nature. They disperse uniformly in the formulation therefore impart uniform colour to the Water Soluble Fertilizers.

The Anticaking Agent after application on to the fertilizer prevents the fertilizer from absorbing moisture from the atmosphere thus maintaining its free flowing property. Also when the coated fertilizer is added into Water either for Drip Irrigation or Foliar Spray the product disperses into water very easily. The Anticaking Agent is used at a dosage level of

0.1%w/w i.e. 1 kg per MT of fertilizer. The Anticaking Agent is available in various colors like Red, Green Blue, Yellow, Orange, etc. It can also be supplied in customer desired color shade.

Application of Anticaking Agent onto Water Soluble Fertilizers, Micronutrients, Salts (Crystalline or Powder Form) that are manufactured by batch process.

The water soluble fertilizers manufactured in batch process are normally coated with Anticaking Agent either using a mechanical mixer or by hand. In this type of coating care should be taken that uniform coating is achieved to get excellent Anticaking property.

Mixer Coating: The known quantity of the fertilizer is taken in the mixer and the measured quantity of Anticaking Agent is taken in a bucket. The Anticaking Agent is added slowly or intermittently in small portions, under continuous mixing, to obtain uniform coating.

Hand Coating: The known quantity of fertilizer is taken on the floor or over plastic tarpaulin and the measured quantity of Anticaking Agent is taken in the bucket. Small portion of the fertilizer, say about 2 kg, is taken in a small bucket and is mixed with a small portion of Anticaking Agent and is mixed thoroughly by hand. The total Anticaking Agent required for coating is divided into 5 or more aliquots and mixed with small portion of fertilizer. Later this hand coated fertilizer is mixed thoroughly with the total fertilizer to be coated. This will ensure proper coating of the entire fertilizer.

Note: During hand coating or handling of Anticaking Agent please ensure that the person doing the job should wear gloves and goggles and take enough safety measures. The Anticaking Agent supplied is non-toxic in nature but it can be an eye irritant or skin irritant to sensitive skin.

If Anticaking cum Colouring Agent is used for coating then the uniform colour will indicate whether the product is coated properly or not.

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