



Anticaking Agent

Anticaking cum Colouring Agent

For NPK Blends, Water Soluble Fertilizers & Micronutrients

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

For **Granular Blends** the product is available in Oil Based Formulations and for Water Soluble Fertilizers & Micronutrients the Anticaking Agent is available in Surfactant Based Formulation











Application of

Coloring Agents



Indo Amine have developed a series of coloring agents for various types of fertilizers. Our coloring agents are of both types, in-situ type that is process additive as well as the surface colors that are applied in the coating drum.

In-situ Coloring Agent:

Normally, DAP fertilizer is colored Black or Brown and the Black or Brown color requirement is for the entire granule. This type of Black or Brown color is obtained by addition of the coloring agent in the pre-neutralizer or in the PR feed where the coloring agent is mixed thoroughly and uniformly by continuous addition using a metering pump. The color can be maintained by controlled dosage of the coloring agent. Some fertilizer companies demand higher intensity of the color and this can be increased either by adding extra quantity of coloring agent or addition of powder coloring agent simultaneously to that of the liquid coloring agent.

Indo Amines manufacture all the coloring agents in both liquid and powder from.

The coloring agents are also available for NP and NPK type of fertilizers.

Anticaking cum Coloring Agent for Granular NPK fertilizer as well as NPK Blends

Blended fertilizers especially NPK are a mixture of various types of fertilizers that includes Urea as well as other ingredients that are hygroscopic to very hygroscopic. Each blend has a different moisture absorbance level at different humidity conditions of storage.

Indo Amines has studied the mechanism of the moisture absorbance and have developed coating technology that forms a thin film on the surface of the granules. It acts as a moisture barrier thus preventing the ingress of moisture to the maximum level. On application of the Anticaking Agent this property helps in prolonging the moisture absorbance thus retaining the free flowability of the blended fertilizer. The product is suitable for any type of traditional coating application system. The Anticaking Agent can be also added in small portions to the small batch type blenders and the results are equivalent to mechanical operations of coating in the coating drum.

Indo Amines has developed Anticaking cum Coloring Agents for the NPK Blends that are normally available in dark color shades like Red, Green, Blue, etc. This helps in masking the ingredients of the blends as well as they give unique identity to the fertilizer brand in the market. It also helps for segregation of various grades within the factory due to the color identity. The color identity is also an added advantage for the marketing people of the organization to promote the fertilizer with its benefits to the farmer. Our Anticaking cum Coloring Agents are cost effective too.

Surface Coloring Agents:

The surface coloring agent is actually a combination of an Anticaking agent and the customer desired color. The Anticaking cum coloring agent impart identifying colors as well as impart Anticaking property to the fertilizers. This product can be manufactured in the customer desired color shade.

Our Anticaking cum Coloring Agent is a pumpable liquid suitable for all types of NP, NPK, ANP, & DAP type of fertilizers and the recommended dosage levels are 0.2% to 0.3% ie 2kg to 3kg per ton of fertilizer depending on parameters such as granulometry, crushing strength, uniformity of coating, etc.

We have an established R&D and Quality Control laboratory and all our products undergo stringent quality check.

We have the expertise to provide engineering service requirement in installation and operation of the dosing system for controlled, cost effective dosing of our Coloring Agent and Anticaking cum Coloring Agent onto fertilizer.

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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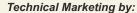
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