



K-Coat FC & EC

Ready-to-use Coating Polymers



The complete solution kits for coating application
i.e. Enteric-coating and Film-coating for Tablets, Pellets,
Granules and Powders based on Aqueous & Non-aqueous.

Film Coating

Enteric Coating

Other Coating Polymers

K-COAT FC4W :

It is a HPMC based ready-to-use coating polymer which is used in Film-coating with Aqueous system. The film is swellable and permeable in any pH.

K-COAT EC4W :

It is a Methacrylic Acid co-polymer type "C" ready-to-use coating polymer which is used in Enteric-coating with Aqueous system. The film is insoluble that is in Gastric Fluid at pH below 5.5.

K-COAT TC :

This polymer is used for transparent Film-coating with Aqueous system.

K-COAT FC4S :

It is a HPMC based ready-to-use coating polymer which is used in Film-coating with Non-Aqueous system. The film is swellable and permeable in any pH.

K-COAT EC4S :

It is a Methacrylic Acid co-polymer type "A" ready to use coating polymer which is used in Enteric-coating with Non-Aqueous system. The film is insoluble that is in Gastric Fluid at pH below 6.0.

K-COAT MB :

Many active ingredients require a protection against moisture because of their moisture sensitivity property. Moisture barrier coating can increase their stability against moisture effect.

Physical properties : Fine, free-flowing powder available in all colors.

Features	Benefits
Easily dispersible in Water/Solvent	Very easy to formulate
Ready-to-use form	Saves money, time & energy
Available in all colors	Freedom to choose colors
Gives even coat, smooth & shiny finishing	Adds value to the formulation
Easy to spray, No-choking of the spray gun	Convenience of usage

Toxicity:

It is a high molecular weight polymer so it can't be absorbed by body tissue & it is safe for human consumption. It has no physiological action at recommended dosage. It is non-toxic.

MSDS & other documents will be provided on request.

K-COAT Formulation

Batch Size: 50 kg.
Average Tablet Weight: 400 mg.

Ingredients Required:

K-COAT : 0.9 kg.
D. M. Water / Solvent : 6.0 liters

Note: 1.8% weight gain required in film-coating while, 7.0% weight gain required in enteric-coating.

Procedure:

Take 6.0 liters of Water / Solvents into vessel and stir continuously. Add required quantity single or mix pigments for standard shade.

Slowly add 0.9 kg. **K-COAT** polymers in above vessel and mix it for 30 minutes.

Filter the whole dispersion through 100 mesh.

It is normally a low viscous dispersion.

Equipment Criteria:

Coating pan comply with around 4-6 artificial baffles.
Coating pan : 36" size
Pan Revolution : 8-12 rpm
Gun air pressure : 2-3 kg / cm²
Tablet bed temperature : 35-40° C
Inlet temperature : 60-70° C

Note :

- (1) Speed of pan, air pressure & temperature varies on the Nature of the tablets, pellets, granules & powders.
- (2) Different solvents are used for the process like Iso Propyl Alcohol, Methylene Chloride alone or in mixture.



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