

INSTACOAT™ EEN SF is an acrylic based high-speed optimized enteric film coating material suitable for use with hydro-alcoholic solvent systems. It offers enteric protection at low weight gain and is suitable for all coating machine designs and sizes. Use of a seal coat to prevent interaction between active ingredient and polymer and to provide a uniform substrate surface is recommended.

## Recommended Solvent System and Reconstitution Level

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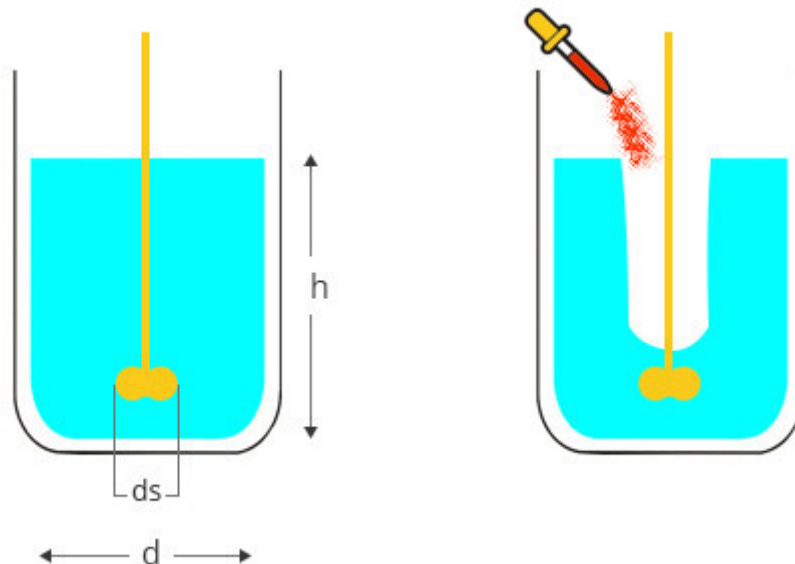
Hydroalcoholic: IPA 85% + Water 15% at up to 8% w/w solids

## Equipment / Accessories

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Variable-speed mechanical stirrer

Mixing Vessel



## Calculation of Instacoat EEN SF and solvent quantities

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Determine the quantities of Instacoat EEN SF (8% w/w solids), IPA & purified water required, based on the quantity of tablets to be coated and the target coating weight gain. e.g.: For

coating 1.0 kg of tablets to 5% wt. gain, weigh 55 gm Instacoat EEN SF, 538 g IPA & 95 g water at room temperature (including 10% overage for losses).

## Reconstitution Process

Add the weighed quantity of Iso Propyl Alcohol to the mixing vessel.

Using the mechanical stirrer, stir the Iso Propyl Alcohol to form a vortex.

Add the required quantity of Instacoat EEN SF to the centre of the solvent vortex in a slow steady stream, avoiding clumping and maintaining a vortex. Stir for 5 minutes, then add the water.

Once the entire quantity of Instacoat EEN SF has been added, reduce the stirrer speed to eliminate the vortex. Continue mixing for 45 minutes.

It is recommended to continuously stir the coating suspension during the entire coating process.

Filter the coating suspension through a 60 mesh screen.

## Recommended Process Conditions

	Side-vented (fully perforated) pans	Conventional (non perforated) pans
Pan diameter (inch)	24-60	12-36
Tablet load (kg)	10-350	0.5-50
Weight gain (%)	5.0	
Number of guns	1-6	1-2
Liquid nozzle diameter (mm)	1.0-1.2	
Atomising air pressure (bar)	1.0–2.0	
Pattern air pressure	To achieve maximum uniform bed coverage	

Tablet bed temperature (°C)	33-35
Inlet air temperature (°C)	Set to achieve required product bed temperature
Suspension spray rate	Set to achieve required product bed temperature
Exhaust air volume	To maintain slight negative pressure in pan
Pan speed	Minimum for steady tablet flow through spray zone

\*Tablet bed temperature offers the most effective way of controlling the coating process. Where this measurement is unavailable, exhaust temperature may be substituted. However, the relationship between the two measurements is complex and depends on several factors such as pan load, pan depression, pan design and airflow rate. Indicated exhaust temperature may be above or below the true bed temperature. It is recommended that the relationship between the two measurements is calibrated.

## Typical Constituents

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Methacrylic Copolymer Type A, Type B; Plasticisers; Titanium Dioxide; Edible Pigments; Surfactant; Glidant.