

INSTACOAT™ EEN is an acrylic based ready-to-use enteric coating system for hydro-alcoholic solvent use, which provides excellent enteric protection to solid oral dosage forms. It is suitable for all coating machine designs and sizes. Use of a seal coat to prevent interaction between active and polymer and to provide a uniform substrate surface is recommended.

## Recommended Solvent System and Reconstitution Level

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IPA 90% + Purified Water 10% at up to 10% w/w solids

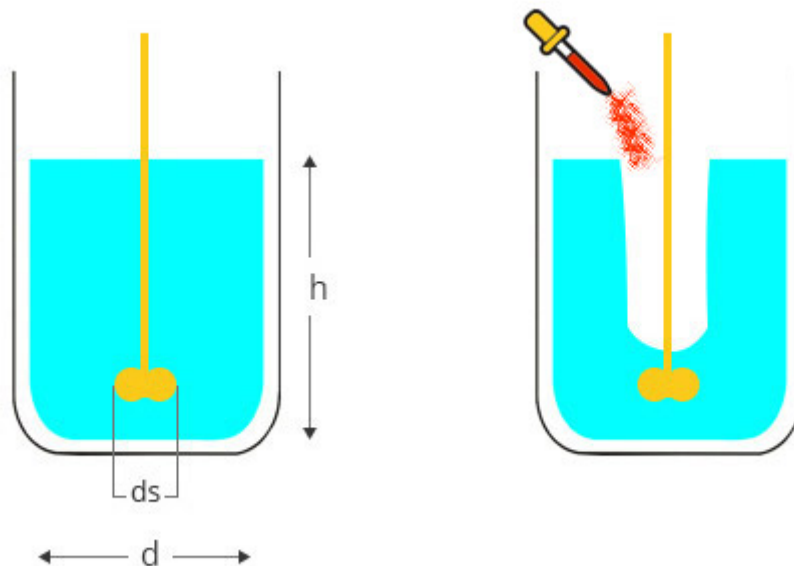
## Equipment / Accessories

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Variable-speed mechanical stirrer

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Mixing Vessel



## Calculation of Instacoat EEN and solvent quantities

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Determine the quantities of Instacoat EEN (10% w/w solids) and IPA + 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 8% wt. gain, weigh 88 gm Instacoat EEN and 792 gm IPA + 88 gm purified water at room temperature (including 10% overage for losses).

## Reconstitution Process

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Add the weighed quantity of Isopropyl Alcohol in a mixing vessel.

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Using a propeller stirrer, stir the Isopropyl Alcohol to form a vortex.

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

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

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Filter the coating suspension through a 60 mesh screen.

## Recommended Process Conditions

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	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 (%)	8.0	
Number of guns	1-6	1-2
Liquid nozzle diameter (mm)	1.0-1.5	
Atomising air pressure (bar)	1.0–2.0	
Pattern air pressure	To achieve maximum uniform bed coverage	
Tablet bed temperature (°C)	31-35	

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 Acid Copolymer Type A &/or Type B, Plasticisers; Titanium Dioxide; Edible Pigments; Glidant; Surfactant.