



Preliminary Technical Data Sheet HYDRO™ AP 117 Acrylic Emulsion Pressure Sensitive Adhesive

DESCRIPTION

HYDRO™ AP 117 is a single component type , high tack and peel, acrylic copolymer emulsion pressure sensitive adhesive. This adhesive cures at moderate temperatures upon complete water removal. At room temperature, full cure may take up to 24 hours.

APPLICATION

HYDRO™ AP 117 is most suitable for manufacturing adhesive tapes based on BOPP, paper , etc.

PRELIMINARY TECHNICAL SPECIFICATIONS

Test	Method	UOM	Observations
Appearance	Sight	Visual	Milky white emulsion
Diluent	-	-	Water (low TDS)
Solids	Temp. 150°C (20 min)	%	55± 1
pH	Litmus paper		8 to 10
Viscosity at 30 °C	Ford Cup B4	Seconds	15 to 24
Peel Adhesion	PSTC 101	gms/25mm	650± 10 %*
Rolling Ball tack	PSTC 106	cm	10 to 15
Shear Strength 25mmx25mm, 1 kg load	PSTC 107	Minutes	800 ± 10 %*

(*) Evaluated on 23 micron BOPP film , coated with 20±2 gsm , dry coat weight .

INSTRUCTIONS FOR USE

HYDRO™ AP 117 should be used with proper coating equipment on to the substrate. Preferred coating method is by gravure with mayer bar arrangement. It is important that the water in the adhesive be dried efficiently in the coating machine, otherwise residual moisture could lead to a decrease in the technical characteristics of the finished product comparing to the technical specifications. Proper care should be ensured during coating process with effective ventilation. The adhesive should be coated on corona treated films (for BOPP films) to have proper anchorage. Clear highly tacky films are obtained after complete removal of water in the coating machine.

PACKAGING

HYDRO™ AP 117 adhesive is supplied in 210 or 225 kgs, non-returnable HDPE barrels. Other packings can be provided on request.

This information and any technical advice, whether verbal or written or by way of trials – are given in good faith, but without warranty; this also applies where proprietary rights of third parties are involved. The advice given does not release the user from the obligation to check its validity and to test the suitability of our products for the intended processes and uses. The application, use and processing of our products, even if made on the basis of our technical advice, are beyond our control and therefore entirely under the sole responsibility of the user.

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STORAGE

It is recommended to store the adhesive barrels in a cool place, protected from direct sunlight, frost and heat sources, at temperatures from + 5 °C to 30°C. Keep material in tightly closed containers to prevent loss of water. Containers, once opened, should be shut securely to prevent contamination. When stored properly, the product has a shelf life 12 months from production date (unopened and in the original packaging).

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