

AVCO-VISCOL VPU

ADDITIVE TO MODIFY REOLOGY OF POLYURETHANE AND ACRYLIC COATING PASTES.

AVCO-VISCOL VPU is a special additive developed for coating pastes and spraying solutions. The use of AVCO-VISCOL VPU can minimize the penetration problems which may occur when the coating or spraying is carried out on the treated textiles articles.

SPECIFICATIONS:

Appearance	Colourless clear liquid.
Chemical nature	Aqueous compound of polyethoxylated polyurethane copolymer and solubilizers.
Ionic type	Non-ionic
pH (as it is)	6 – 8
Solubility	Emulsifiable in water.
Compatibility	Stable to all chemicals normally encountered in pigment printing.
Storage	Good stability for at least 12 months. Do not store near naked flame and in hot places.

PROPERTIES & USES:

1. A high quality, high concentrated thickener. Easy handling to adjust the viscosity of the coating paste. The desired viscosity for good coating results is around 20 – 30d.Pas
2. AVCO-VISCOL VPU does not affect the handle of coated fabrics or garments
3. AVCO-VISCOL VPU is suitable for spraying and coating on all kinds of absorbent fabrics.
4. AVCO-VISCOL VPU is less sensitive towards water hardness.
5. AVCO-VISCOL VPU can solve the bleeding or penetration problems, which may occur when coating or spraying on fabrics or garments in order to enable the desired surface finishing effects.
6. AVCO-VISCOL VPU can solve the bleeding problems which may occur with fabrics that are too hydrophilic, or contains some residues of surfactants.
7. AVCO-VISCOL VPU can solve the bleeding problems which may occur with problematic pigments such as carbon black dispersions.
8. AVCO-VISCOL VPU produces an increase in the viscosity of concentrated polyurethane or acrylic dispersions.
9. AVCO-VISCOL VPU improves the levelness and evenness of large coated areas.

APPLICATION:

AVCO-VISCOL VPU should be added to the coating or spraying formulation at a rate of 0.5 – 2% on the compound weight.

To ensure homogeneous dispersion of the product in the printing paste, it should be incorporated with a high speed mixer.

I. COATING and SPRAYING

1. When required tint AVCO-PRET OL/ AVCO-PRET LACK with AVCO-pigment dispersions.
2. The viscosity of AVCO-PRET OL/ AVCO-PRET LACK can be adjusted by adding AVCO-VISCOL VPU (0.2 – 1.5%).
3. To avoid bubbles in the coating or spraying compound add a de-foaming agent such as AVCO-ANTIFOAM NS 300 (0.2 - 0.5 g/kg).
4. It is possible to modify the final handle of the coated textile by incorporating a special plasticizer. Add up to 4% of AVCO-SIL MA-HC.
5. For improving washing fastness of the coated textile add 1% AVCO-FIX COAT IWF on the weight of the AVCO-PRET OL/ AVCO-PRET LACK. After adding the cross linking additive, the pot life of the mixture is app. 8 hours and should be used within this time. Full cross linking effect is achieved in 4-5 days. Elevated drying temperatures do not fasten the cross linking process.
6. Spray or coat and dry completely to evaporate any residual water. It is possible to shorten drying time by elevating the temperature.
7. Spraying and coating equipments should be washed and dried in the normal procedure. During long stoppage in the spraying process, nozzles should be wrapped with a wet rug, or should be removed from the machine for cleaning and drying before further used.
8. For producing highly bright and shiny appearance of the coated textile, it is recommended to press or calander it at elevated temperature (195 - 205 °C).
9. For producing opaque or white coat add up to 25% AVCO WHITE HH BC.
10. Residues of coloured compound (without cross linking additive) can be mixed for re-using in any desired colour recipe. When residue of AVCO-PRET OL is stored for long time, the product should be kept in tightly closed drum.
11. Before reusing, the paste should be re-homogenized and filtered.

II. Spraying recipe for application on ready made garments.

AVCO-PRET OL	940 – 980 g/l
AVCO-SIL MA HC	0 – 40 g/l
AVCO-VISCOL VPU	2 – 10 g/l
AVCO- PIGMENTS	X %
AVCO-FIX COAT IWF	10 g/l
	1000

1. Spray over the garments the desired amount of the spraying compound (app. 100 – 150 g/ piece).
2. Dry in the oven at 80 – 100 °C.
3. If necessary repeat the spraying process twice.
4. Hot press at 195 - 205 °C.

Remarks:

1. Take care to spray the compound on completely clean garments, free of any dirt or other finishing additives.
2. The garment surface should be smooth and free of any fuzz and hairiness. If necessary pre-treat the garments with a bio-polishing enzyme to improve surface smoothness.

III. Recipes and application technique for foam coating and for direct paste coating should be adjusted to the available coating machines.

Please consult AVCO VIETNAM COMPANY representative for recommending the optimal recipes.