

AVCO-NANOFINISH PU

SELF-CROSSLINKING POLYURETHANE FOR TEXTILE FINISHING

AVCO-NANOFINISH PU is a self cross linking soft polymer, suitable for finishing of wool fabrics by padding methods and by exhaust processes.

AVCO-NANOFINISH PU is producing very soft elastic films, and is recommended as an finishing agent to improve abrasion resistance and anti-pilling behavior, anti-shrinking and dimensional stability of the treated fabrics.

The finishing effect is wash fast to many repeated laundry cycles.

SPECIFICATION:

Appearance	Clear to slightly turbid liquid.
Chemical nature	Polyurethane based copolymer in aqueous dispersion.
pH(10% sol.)	4-5
Ionocity	Nonionic / amphoteric
Solubility	Miscible with water at any ratio.
Mechanical stability	Good
Resistance to Electrolytes	Good
Re-dispersibility	Good
Compatibility	Can be mixed together with all nonionic and anionic auxiliaries used in textile finishing Compatibility with cationic products should be evaluated before use.
Storage	Product is sensitive to frost and should be stored in a closed container, and protected against frost. Self life is at least 12 months

PROPERTIES & USES:

1. AVCO-NANOFINISH WPU is soft cross-linking and forms highly elastic film without addition of special catalysts.
2. AVCO-NANOFINISH WPU has very good running properties on padding and coating equipment.
3. AVCO-NANOFINISH WPU has good compatibility with all types of catalysts and resin used in textile finishing.

Technical – Information

4. The binder film when cured, is very clear, and does not impair colour brightness.
5. Can be used with all types of textile fibres and blends.
6. The cured film has an hydrophilic nature.
7. Fabrics finished with AVCO-NANOFINISH WPU have a soft and full handle, with good fastness to light, washing and rubbing.
8. Highly recommended for anti-pilling finish and for improving the abrasion resistance, improving the anti-shrinking property of finished fabrics.
9. AVCO-NANOFINISH WPU can improve the dry rub-fastness.
10. Excellent soil release effects are realized because of the combination of hydrophilic and cross-linking properties of AVCO-NANOFINISH WPU film.

APPLICATION:

To achieve the best possible finishing effect, the wool fabric should be finished neutral or slightly acidic.

AVCO-NANOFINISH WPU	- 20-60 g/l
AVCO-ELASTOSIL W-306	- 10-40 g/l
Adjust pH 4.5-5 BY ACETIC ACID.	

For low shrink and dimensional stability finish:
 AVCO-NANOFINISH WPU - 60-80 g/l
 Adjust pH 4.5-5 by ACETIC ACID.

Drying:

The padded fabrics are dried in the stenter. Care should be taken to ensure that the drying is uniform.

Fixation:

After drying the goods are subjected to dry heat curing treatment. The fixation conditions depend on the type and quality of the fabrics, and the type of machines. The usual temperature-time relationship re as follows:

2	minutes at 150°C
1.5	minutes at 160°C
1	minutes at 170°C

Drying / fixation can be done in one path at elevated temperatures.