

Technical - Information

AVCO-SOFT PU

SELF-CROSSLINKING POLYURETHANE FOR TEXTILE FINISHING

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

AVCO-SOFT 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-SOFT PU is soft cross-linking and forms highly elastic film without addition of special catalysts.
2. AVCO-SOFT PU has very good running properties on padding and coating equipment.
3. AVCO-SOFT PU has good compatibility with all types of catalysts and resin used in textile finishing.
4. The binder film when cured, is very clear, and does not impair colour brightness.

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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-SOFT PU 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-SOFT PU 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-SOFT PU film.

APPLICATION:

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

AVCO-SOFT PU: - 20 - 60 g/l

AVCO-ELASTOSIL 1880 ECO - 10 - 40 g/l

Adjust pH 4.5 - 5 BY ACETIC ACID.

For low shrink and dimensional stability finish:

AVCO-SOFT PU - 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.