

AVCO-REZ LTC

LOW CURING TEMPERATURE RESIN FOR EASY-CARE FINISHES

AVCO-REZ LTC is a newly developed low curing temperature resin, contained low formaldehyde, applied by normal dry crosslinking methods on fabric and used for wrinkle free finishing of garments with minimum loss of strength.

SPECIFICATION:

Appearance	Clear to yellow turbid liquid.
Chemical nature	Modified dimethylol- dihydroxy- ethylene urea.
pH (as is)	2.0 – 4.0
Solid contents	Approx 60%
Free Formaldehyde	Less than 75 p.p.m.(A.A.T.C.C), in properly cured fabrics.
Solubility	Dilutable in cold water in any proportion.
Storage	Stable at least 12 months in closed containers at ambient temperature.

PROPERTIES:

1. Used for the resin finishing of woven and knitted cellulose fibres and their blends.
2. Applied by normal dry crosslinking methods on fabric. This resin has been specially modified to cure at 110 – 120°C.
3. Gives low formaldehyde levels on the treated fabric, meeting Ökotex standards 100.
4. Gives “wash and wear” effects durable to washing up to the boil.
5. Fast to chlorine treatments.
6. AVCO-REZ LTC is compatible with fluoro carbon resins.
7. Gives excellent crease recovery and shrinkage control.
8. Minimizes shade alterations.

APPLICATION:

Special advise :

- Ensure the fabric is well prepared, neutralised correctly and has not been treated with formaldehyde containing products such as cationic dye fixing agents in the preceding processes.
- For optimum results the resin should be applied at pH 4-5.

Processing :

- In order to achieve optimum curing the fabric should be fully absorbent and free of residual alkali from the pre-treatment stage. The amount of AVCO-REZ LTC required is first diluted in water, the additives are followed by the prediluted catalyst are added and then the bath is set to pH 4-5 and made up to final volume with water.

Application :

Product	Wash & Wear on 100% Co	Easy care on Pe/Co	Low shrink finish on 100% Viscose
AVCO-REZ LTC	30-60 g/l	20-40 g/l	60-120 g/l
AVCO-SOFT PE	10-30 g/l	10-30 g/l	20-40 g/l
AVCO-ELASTOGUM 230 NEW	10-30 g/l	10-30 g/l	20-40 g/l
AVCO-CATALYST PMC	10 – 20g/l	10 – 13g/l	20 -30 g/l
Acetic acid	Adjust pH 4-5	Adjust pH 4-5	Adjust pH 4-5
Pick up	70-80%	70-80%	70-80%

Double pass process :

Drying : 100°C
 Curing either : 110°C 180 seconds
 Or 120°C 120 seconds

Single pass process :

Rapid curing 110-120°C 180- 240 seconds

II.Wrinkle free application for garment :

Product	Garment 100% cotton
AVCO-REZ LTC	80-180 g/l
AVCO-SOFT PE	20-30 g/l
AVCO-ELASTOGUM 230 NEW	20-30 g/l
AVCO-CATALYST PMC	25 – 30g/l
Acetic acid	Adjust pH 4-5
Pick up	100 %

The garments are treated in an industrial washing machine at 30°C using a liquor ratio between 1:10 and 1:20 for 15-30 min followed by hydroextraction. After tumble drying and pressing, the garments are cured at 110-120°C for 8-12 min in an oven.