

AVCO-REZ ECO CONC

HIGH CONCENTRATION, LOW FORMALDEHYDE REACTIVE RESIN FOR EASY-CARE FINISHES

AVCO-REZ ECO CONC is a modified Glyoxal resin, used as a thermosetting resin, to produce durable crease resistance and dimensional stability to cellulosic and polyester cotton fabrics. AVCO-REZ ECO CONC is a low free formaldehyde product, suitable for the Eco Standard application.

SPECIFICATION:

Appearance	Clear, yellow to red-brown liquid	
Chemical nature	Modified dimethylol-dihydroxy-ethylene urea.	
Ph (as is)	4.0 – 5.0	
Solid content (R.I)	Approx 70%	
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 normal storage conditions for at least 12 months.	

PROPERTIES:

- 1. Used for the resin finishing of woven and knitted cellulose fibres and their blends
- 2. Applied by normal dry croslinking methods on fabric
- 3. Gives low formaldehyde levels on the treated fabric (below 75 ppm) meeting Ökotex standards
- 4. Gives "wash and wear" effects durable to washing up to the boil
- 5. Gives chlorine resistant finishing
- 6. Can be diluted in tap water thanks to its buffering/sequestering system 20-30 g/l
- 7. Minimises tendency to yellow
- 8. Gives excellent crease recovery and shrinkage control
- 9. Can be used with fluorochemical based water repellents
- 10. Because of high reactivity , an increase of stenter frame speed is possible for approx. 10%.
- 11. The hand of fabrics treated with AVCO-REZ ECO CONC is softer than fabrics treated with U.F. or Melamin resins.



APPLICATION:

I. For fabric :

- 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
- In order to achieve optimum curing the fabric should be hydrophilic and free from alkali. The amount of AVCO-REZ ECO CONC required is first diluted in water, the additives 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

Product	Wash & Wear on 100% Co	Easy care on Pe/Co	Low shrink finish on 100% Viscose
AVCO-REZ ECO CONC	20-50 g/l	10-40 g/l	40-90 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	20-30 g/l	10-20 g/l	20-60 g/l
Acetic acid	1ml/l	1ml/l	1ml/l
Pick up	70-80%	70-80%	20-60 g/l

Double process :

Drying : 110-130 ⁰ C			
Curing : 150-155°C	2.5-1.5 min		
170-180°C	40-25 sec		
Single process :			
Rapid curing 160-170°C	60-45 sec		

II.Wrinkle free application for garment :

Product	Garment 100% cotton
AVCO-REZ ECO CONC	40-70 g/l
AVCO-SOFT PE	20-30 g/l
AVCO-ELASTOGUM 230 NEW	20-30 g/l
AVCO-CATALYST PMC	20-40 ml/l
Acetic acid	1 ml/l
Pick up	60-80 %

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 150-155°C for 8-12 min in an oven.