

## AVCO-LEVELER ACR

### LEVELLING AGENT FOR CATIONIC DYE STUFFS

AVCO-LEVELLER ACR is a levelling agent for dyeing poly-acrylic fibres and blends, with cationic (basic) dyestuffs.

#### SPECIFICATION:

<b>Appearance</b>	Clear, colorless liquid.
<b>Chemical nature</b>	Quaternary ammonium compound in aqueous solution.
<b>Compatibility</b>	Compatibility with cationic and nonionic products. Incompatible with anionic products
<b>Ionicity</b>	Cationic.
<b>pH (10% sol.)</b>	7 ± 1
<b>Resistance to: Acids, Alkalis, Electrolytes, Water-hardness</b>	Good under the conditions normally encountered in acrylic dyeing
<b>Solubility</b>	Miscible with water at any ratio.
<b>Storage</b>	Freezes below 0°C, fully useable after thawing. Shelf life is at least 12 months.

#### PROPERTIES & USES:

1. High levelling power towards cationic dyestuffs.
2. Maximum migration.
3. Maximum color yield.
4. AVCO-LEVELLER ACR does not block dye-sites.
5. AVCO-LEVELLER ACR overcomes differences in the dye-affinity caused by variation in the 1fibers.

#### APPLICATION:

1. Set dye bath at 60°C, and add chemicals in the following order:
  - a. Acetic Acid to adjust pH at: 4-4.5
  - b. Sodium sulphate according to instructions of dyestuff manufacturer.
  - c. AVCO-LEVELLER ACR - 0.5-3% o.w.g.
  - d. Cationic dyestuff pre-dissolved in hot water with acetic acid or special solvent.

2. Bring to the boil at 45-60 minutes, and run for 45-90 minutes, or treat at 106°C for 30–45 minutes.
3. Cool down and drop bath.
4. Softening can be done with AVCO-SOFT NE (1-3% o.w.g.), while dyeing, or in the cooling down process or in a separate bath after dyeing.
5. Dosage (depends on saturation factor of dyestuffs)

dyestuff %	below 0.5	0.5 - 1	2 - 1	2 - 3	3 - 5
AVCO-LEVELLER ACR%	3.0 - 2.5	2.5 - 2.0	2 - 1.5	1.5 - 0.5	0.5

The concentrations mentioned above should be reduced by 30% for fibres with saturation factor of 1.5 or below.

Correction of un-level dyeing:

Treat at the boil or at 105-106°C for 1-2 hours with:

AVCO-LEVELLER ACR	3 - 5 %
Sodium Sulphate	10 - 20 %
Dye from original recipe	0 - 10 %

Adjust pH to 4-4.5 with Acetic Acid.