

# POLYTAR PAC Conc.

**Retarding and levelling agent for the dyeing of acrylic fibers with basic dyes**

- Properties** :
- has an absorption capacity similar to a basic dyestuff.
  - can also be used to strip and level out uneven dyeing.
  - is compatible with cationic and nonionic compounds.
  - improves levelness in acrylic dyeing with basic dyes by reducing the speed of dyeing process.
  - can be removed from the fiber within 15 minutes by after-soaping process at boiling temperature with 2-5 g/l soap.
  - has no effect on fastness properties of dyeing and because of washing off easily, hence no effect on handle.
  - is resistant to acids, alkaline, electrolytes and water hardness in usual amounts.

## **Field of application**

- Substrate** : acrylic, polyester/acrylic blends.
- Aggregate** : continuous and discontinuous dyeing machines.
- Operation** : dyeing of acrylic in flakes, skein, yarn and fabric piece goods.

## **Characteristics**

- Type of product** : quaternary ammonium compound
- Ionic nature** : cationic
- Appearance** : clear viscous liquid

**Mode of action** : **POLYTAR PAC Conc.** is a fiber reactive compound for the dyeing of acrylic fibers with cationic dyes. It is not permanent, but will be replaced during dyeing at boiling point by the dyestuffs. A complete exhaustion of the bath can be achieved. In fact, it acts like a cationic dyestuff. It is taking up the fiber prior to the cationic dyestuff and occupies the fiber anionic groups. While dyeing at higher temperature, the retarding agent is replaced by the dyestuffs, then causes a slowing down of the dye taking-up and dyeing levelness is obtained.

## **Application**

**Dissolving method** : is miscible by stirring with cold or warm water in all proportions easily.

**Guide recipes** : The application is following the recommended guiding rules of the dyestuff producer for the dyeing of acrylic fibers.

**Polytar PAC Conc.** is added to the bath prior to the dyestuffs and the pH=5 should be adjusted by addition of acetic acid. Usage amounts range is between 0.3-3.0% of **Polytar PAC Conc.** related to the amounts of Dyes which used. It must be noted that more using amount are for light and the less are for dark shades. By addition of Sodium Sulphate, the levelling power of **Polytar PAC Conc.** can be increased.

**Storage stability** : 12 months in closed containers at 20°C.

The indications given herein correspond to practical experiences. Owing to the differences in local conditions they cannot claim to be complete, so that any liabilities - also with a view to claims of third parties - are excluded.