

# DEEPCOL Conc.

**Color-depth improver of disperse dark dyes**

- Properties** :
- improves the color-depth of wool, polyester and their blends that are dyed with disperse dyes black color.
  - improves the color-depth of some acid black dyes on wool and PES/WO.
  - imparts superior repulsion elasticity and elastic recovery.
  - has anti-static softness by itself; therefore, no need to use softener additionally.
  - brings about 40% of color yield up effectiveness.
  - causes neutral to bluish deep shade in color.
  - forms a cross-linked layer on the surface of the fiber and provides a deep dark shade effect.

## **Field of application**

- Substrate** : polyester, wool, PES/WO blends
- Aggregate** : different kind of dyeing machines
- Operation** : color-depth improver

## **Characteristics**

- Type of product** : special multi-functional silicone copolymer
- Ionic nature** : weakly cationic
- Appearance** : milky-white liquid

## **Application**

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

The fabric must be washed well before applying the product to remove all alkali. The product is more effective on dry than on wet fiber. The pH of padding liquor must be 5.0-5.5 (set by acetic acid 98%).

General method of treatment is:

### **Dyeing > R.C.> Washing > Drying > Color deep improver > Drying > Setting**

**Exhaustion:** 1-2% DEEPCOL Conc. , Temp. : 30-40°C for 20 min., Dry at 140-180°C for 1-2 min.

**Padding :** 10-25 g/l DEEPCOL Conc., Temp.: 25°C, Dry at 130°C for 2min, curing at 170°C for 1min.

It is generally used 10-25 g/l, but its quantity can be adjusted or more to be optimized its effect, but not recommended to use more than 50 g/l or 5% sol. because it may cause slip.

### **Drying > Padding (10-25 g/l, 1-2% Sol.) > Curing (160°C \* 1Min.)**

Above curing condition is prepared for 8 chambers of Tenter; In case of 6 chambers of Tenter, it is recommended to apply more slow curing speed to get optimal effect.

**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.