



**COLORIQ**  
The Chemistry Behinds...

## **COLORSOFT HB(CONC)**

Organo-functional silicone softener having excellent shear stability/thermos-stability suitable for jet machines/resin baths & pigment printing.

### **Product Information**

All natural fibres are associated with some oily, fatty or waxy substances in the raw state. These substances give a soft feel to the fibre. However, on scouring and bleaching the material, these waxy substances are removed and the material becomes harsh. It is therefore necessary to apply some softening agent to the textile so as to impart softness, smoothness, fullness, suppleness, and flexibility.

Silicone softeners are macromolecules comprised of a polymer backbone of alternating Silicon and Oxygen atoms with organic groups attached to Silicon. Silicone's softening capability comes from the siloxane backbone's flexibility and its freedom of rotation along the Si-O bonds.

Colorsoft HB (CONC) is an Organofunctional silicone formulation designed for better application process stability, jet stability and resin compatibility without compromising its softness to fabric. It is suitable for cotton, polyester, P/C in woven and knit form. The results are exceptional in finished products such as sportswear, towels, business wear and casualwear. Test results show that this silicone has excellent durability/washability. This ensures that textiles retain their desirable attributes wash-after-wash.

## FEATURES

- Imparts soft fluffy handle of desired softness.
- Negligible yellowing compared to conventional amino silicones.
- Can be applied by exhaust as well padding methods.
- Stable to hard water.
- Durable to launderings.
- No shade change on coloured fabric.
- Crosslinkable.
- Ecological as it is free from APEO.
- Shear stable, hence suitable for jet machines.

## PROPERTIES

Appearance -----> Clear colourless to pale yellow emulsion

Ph 1% -----> approx.5.0

Ionic nature -----> Non-ionic

Compatibility with

Cationics -----> Good

Anionics -----> Good

Non-ionics -----> Good

Stability to hard water -----> Good

## DOSAGE & APPLICATIONS

### Padding method:

5-30 g/l      Colorsoft HB (CONC)

0.2-0.5 g/l      Coloracid CN liquid for pH:4.0-5.0

Expression 70%

Pad at RT and dry at 120-140 deg

### **Exhaust method:**

1-3%      Colorsoft HB(CONC)

0.2-0.5%    Colorsoft HB( conc) liquid for pH:4.0-5.0

Temp.      30-40 deg for 20-30mins

### **CAUTION**

- 🌍 In case of skin contact, wash with plenty of water.
- 🌍 In case of eye contact, wash with plenty of water and seek medical advice.

### **PACKING MATERIAL**

50KG BAG PACKING.

### **The storage guidelines for the product**

#### **1.Storage Conditions:**

- 🌍 Store the product in its original container.
- 🌍 Keep it in a dry, dust-free location at temperatures below 50°C.

#### **2.Ventilation and Compatibility:**

- 🌍 Ensure the storage area is well-ventilated.
- 🌍 Keep the product away from incompatible materials (as specified in the Material Safety Data Sheet) and food items.

#### **3.Container Handling:**

- 🌍 Seal the container tightly after each use.
- 🌍 Avoid pouring unused material back into the container.

#### **4.Shelf Life:**

- 🌍 The product remains usable for at least 24 months from the date of manufacture.

## **WORK**

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