



# Sarex Chemicals

(A Divn. Of Saraf Chemicals Pvt. Ltd.)

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## PRODUCT LITERATURE

### SARAKOL-PDR

#### Product Information

Sarakol-PDR is a concentrated polymeric compound as a dyebath conditioner and washing off agent, which can be readily dissolve to obtain stable solution. Sarakol-PDR is recommended in reactive dyeing by exhaust method. In case of reactive dyes which are having low solubility in presence of salt and alkali and when liquor ratio is low there could be precipitation of dyes during the dyeing, leading to poor colour yield as well as precipitation of dyes on substrate and machine. Addition of Sarakol-PDR overcomes this problem due to its excellent dispersing action. Calcium and Magnesium impurities in the dyebath could also lead to precipitation of dyes as well as poor washing off of hydrolysed dyes at the end of dyeing. Due to its chelating action, Sarakol-PDR prevents such precipitation and also helps in easy removal of hydrolysed reactive dyes at the end of dyeing operation. Sarakol-PDR is also recommended as a washing off agent for reactive dyes in batch operation as well as in continuous operation.

#### Key Features & Benefits

##### Key Features

Based on copolymer of acrylic acid maleic anhydride

Sequestering action

Good dispersing action.

Does not complex with dyestuffs

##### Benefits

Stable to high temperature i.e. more than 100 deg.C

Prevents precipitation of reactive dyes in presence of Calcium & iron

Good dyebath conditioner for package dyeing

Colour yield or tone not affected

#### General Characteristics

Physical appearance : White to offwhite powder

Ionic Nature : Anionic

pH of 1% solution : 10 +/- 2

Miscibility : Soluble in water

Compatibility : Compatible with nonionic and anionic products

Stability : Stable to dilute acids and dilute alkalies



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#### Application

1) Dye bath conditioner

0.15-0.3% Sarakol-PDR is added in the bath before addition of dyestuffs or chemicals. Quantity of Sarakol-PDR would depend upon liquor ratio, quality of process water, quality of salt and efficiency of scouring operation as well as concentration and solubility of the dyestuffs used in the recipe.

2) Washing off by Batch Operation in Jigger

0.15-0.3 g/l Sarakol-PDR  
0.1-0.2 g/l Kalium-NNS (Conc) (optional)  
pH adjusted to 7, Residual salt concentration should be less than 2 g/l before soaping.

Carry out soaping at 85-95 deg.C for 10-30 min., hot wash, cold wash, neutralise. Repeat soaping in fresh bath for dark and problematic shades. Carry out fixation for dark and problematic shades.

3) Soaping of reactives & vat dyes on continuous soaper

#### Instructions For Dilution

Procedure to prepare 30% Sarakol-PDR

- Take 70 parts of DM water
- To this, gradually add 30 parts of Sarakol-PDR under constant stirring at 500-600 rpm using paddle stirrer to obtain clear homogenous liquid.

Preservation: It is recommended to add 0.1% Bronopol (2-Bromo,2-nitropropane, 1,3-diol) or Methyl Paraben (methyl para hydroxy benzoate) as an antimicrobial agent to avoid fungal / microbial growth.

#### Note:

- In order to carry out dilution of Sarakol-PDR faster, 60deg.C DM water may be used



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- pH of final dilution should be maintained at 7-7.5.
- The diluted product will be colourless to light brown liquid.
- Un-dissolved particles if any can be filtered off.

It is advisable to utilize the diluted product within 2 months. Stir well before use.

#### Precautions

Storage : Store in cool, ventilated shed away from heat and direct sunlight. Storage temperature should not exceed 35 deg C. Close lids firmly to avoid contact with air and moisture.

Shelf Life : 9 months from the date of manufacturing, if stored under controlled conditions.

[The above information is given in good faith and is without warranty]  
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