



PRODUCT LITERATURE

PARAKOL-RDP

Product Information

Parakol-RDP is a concentrated polymeric compound as a dyebath conditioner and washing off agent, which can be readily dissolve to obtain stable solution. Parakol-RDP 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 Parakol-RDP overcomes this problem due to its excellent dispersing action. Calcium Iron and other metal ion 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, Parakol-RDP prevents such precipitation and also helps in easy removal of hydrolysed reactive dyes at the end of dyeing operation. Parakol-RDP is also recommended in batch operation as well as in continuous operation.

Key Features & Benefits

Key Features	Benefits
Based on copolymer of i.e. acrylic acid maleic anhydride	Stable to high temperature more than 100 deg.C
Sequestering action	Prevents precipitation of reactive dyes in presence of Calcium & iron
Good dispersing action	Good dyebath conditioner for package dyeing
Does not complex with dyestuffs	Colour yield or tone not affected.

General Characteristics

Physical appearance	White to off white grannules
Ionic nature	Anionic
pH of 1% solution	10 +/- 2
Miscibility	Soluble in water
Stability	Compatible with nonionic and anionic products
Compatibility	Stable to dilute acids & dilute alkalies

Application

1. Dye bath conditioner
0.15-0.3% Parakol-RDP is added in the bath before addition of dyestuffs or chemicals.
Quantity of Parakol-RDP 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.



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2. Washing off by Batch Operation in Jigger

0.15-0.3 g/l Parakol-RDP

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

0.3-0.6 g/l Parakol-RDP

Instructions For Dilution

Procedure to make 30% of Parakol-RDP

Take 70 parts of DM water, add to it 30 parts of Parakol-RDP gradually under constant stirring by using paddle stirrer at 500-600 rpm. Continue stirring till it becomes a homogeneous liquid and filter through nylon filter cloth of 200-250 mesh size. Discard residues if any. Maintain pH at 7 - 7.5. The diluted product will be colourless to light brown liquid.

Note:

In order to carry out dilution of Parakol-RDP faster, 60 deg.C DM water may be used. 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 formation.

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.