



## PROWASH 1611 CONC

**PROWASH 1611 Conc** is developed concentrated and has sequestering, dispersing and washing effect all together. The biggest difference of **PROWASH 1611 Conc** from other washing off agents is effective at low temperature (40°C) and there is no necessarily to increasing bath quantities owing to its high tech. **PROWASH 1611 Conc** can be diluted as 1:3-1:4 by water.

### CHARACTERISTICS

Composition	: Special selected organic compound and ethoxylates
Appearance	: Colorless liquid
pH	: 6,50± 0,50
Ionic Char.	: Anionic
Solubility	: It can be diluted even with cold water in any ratio

### USING CONDITIONS and APPLICATIONS:

Duo to **PROWASH 1611 Conc**'s high leveling, dispersing and sequestering properties and superb water softening properties, it is suitable to use all pretreatment and dyeing process as scouring, bleaching, pad applications, pad and exhaust dyeing process and washing off process after reactive dyeing.

- Increasing the brightness of reactive dyed fabrics.
- It does not effect to the metal structure inside the reactive dyes.
- Enable to growing out of complex structure between dyes molecules and hardness of salt.
- It provides to time and water saving by quickly removing effect to the unfixed dyes on the fabric.
- No foam.
- Prevent to growing out the metal salt of calcium, magnesium, iron, and copper.
- Better changing side between water and dyes molecules on the fabric from all other washing off agents. In this way, can be washing off reactive dyeing fabrics at low temperatures..
- Providing the sufficient washing effect, we have to reducing electrolyte concentration on the fabric. Because off this, we have to strong rinsing after dyeing process.

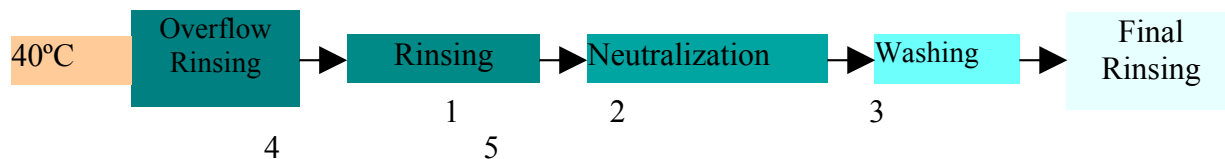
### Recommended Dilution Process

Dilution Ratio: 1(**PROWASH 1611 Conc**):3(water) –  
1(**PROWASH 1611 Conc**):4(water)

1. Charge the water to mixing tank
2. Start the mixer
3. Add the **PROWASH 1611 Conc** at 10 minutes
4. Proceed the mixing plus 10 minutes
5. Stop the mixer
6. Final product is ready to use

**ROWASH 1611 Conc** is easily used all continuous and discontinuous process.

### Washing off Process at Low Temperature

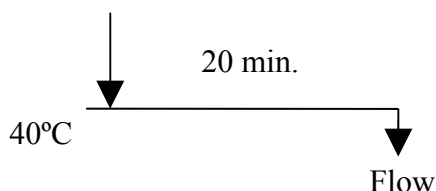


- 1) We must to make firstly, overflow rinsing depend on the salt concentration of dyeing bath.  
The amount of water at the overflow rinsing changes depends on the salt concentration of dyeing bath. Follow table is water amount necessity at overflow rinsing.

Salt concentration	Required water quantity at overflow rinsing
<30 g/l	1 x fabric weight
30-40 g/l	2 x fabric weight
40-50 g/l	3 x fabric weight
50-60 g/l	4 x fabric weight
60-70 g/l	5 x fabric weight
>70 g/l	6 x fabric weight

- 2) Rinsing after overflow rinsing takes 5 minutes at 40°C
- 3) Neutralization takes 20 minutes at 40°C (for cold dyes)  
The issues at the neutralization step is having to set pH to 6-6,5 on the fabric.
- 4) Pass the washing off after he neutralization step.

### **PROWASH 1611 Conc**



Light shades	1,0 – 1,5 g/l	<b>PROWASH 1611 Conc</b>
Normal shades	2,0 – 3,0 g/l	<b>PROWASH 1611 Conc</b>
Dark shades	4,0 – 6,0 g/l	<b>PROWASH 1611 Conc</b>

Washing off process takes 20 minutes at 40°C. After the washing off process the washing bath is flowed and passing next step to rinsing.

- 5) Rinsing takes 10 minutes at 40°C. Recommended rinsing quantity after the washing off process is 2. The washing process is finished after the these two rinsing and passing the softening process  
Recommended usage amount of **PROWASH 1611 Conc** is 4,0-8,0 g/l for continuous washing process of printed and reactive dyed fabrics.

### STORAGE CONDITIONS:

Keep out of direct sunlight or freezing. It is stable for at least 6 months if stored in original packing and recommended storage conditions.

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