

# UNIFLOW ULTRA

## High-Performance Super-Wetting & Penetrating Agent.

### Product description

**UNIFLOW ULTRA** is a premium-grade, organomodified polyether siloxane-based penetrating agent. It is specifically designed to significantly reduce surface tension in aqueous solutions, providing a "super-spreading" effect. It is highly effective in Textile Printing (Screen & Digital), Dyeing and industrial cleaning application.

### Recommended Uses

**UNIFLOW ULTRA** is a highly effective surfactant engineered specifically for textile dyeing and printing application.

### Key Benefits & Applications:

**Super Spreading:** Drastically reduces surface tension (~22–25 mN/m) at very low concentrations.

**Deep Penetration:** Ensures uniform dye/pigment penetration even in high-density or hydrophobic fabrics (e.g., Polyester, Blends).

**Enhanced Sharpness:** Prevents "wicking" and ensures sharp print outlines in digital and screen printing.

**Non-Ionic Nature:** Highly compatible with anionic, cationic, and other non-ionic surfactants or binders.

**Low Foaming:** Provides excellent performance without creating excessive, unstable foam.

**Eco-Friendly:** Readily biodegradable and APEO/NPEO free.

### Physical properties

Appearance	Clear to Slightly hazy liquid
Chemical Character	Organomodified Siloxane
Ionicity	Non-Ionic
pH(1% Solution)	6.5-7.5
Solubility	Soluble in cold & warm water

### Dosage and Handling

Digital printing pretreatment dosage will be 1.0 – 2.5 g/L, Textile screen printing 0.5-2.0 g/Kg in Printing paste, Fabric Dyeing (Exhaust/Pad) 0.5-1.0 g/L, Industrial cleaning/detergent 1.0-3.0% of total weight, Epson Ink-Jet Flow control 0.05-0.1% in formulation.

### Shelf Life

12 months from date of production if store under cover, out of direct sunlight & frost. Need to protect from extremes of temperature. Properly in undamaged un-opened, original sealed packaging. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult your **UNICHEM/Extension-lab** representative.

### Storage stability

**UNIFLOW ULTRA** may be stored in closed container for at least 12 months. The product has to be stored under frost-free conditions; storage temperature should not exceed 35 °C.

### Packaging

50 KG  
120 KG

### Precautions

As with all chemical products, care should be taken during use & storage to avoid contact with eyes, mouth, skin & foodstuffs (which can also be tainted with vapor until product fully cured or dried). Treat splashes to eyes & skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children & animals. Reseal containers after use. Don't reuse containers for storage of consumable items. for further info refer to material safety data sheet (MSDS).

### UNICHEM ENTERPRISE

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