

## SUNWHITE CEM

SUNWHITE CEM LIQ is reddish violet shaded fluorescent whitening agent for cellulosic (Cotton & Rayon), Polyamide Fiber, Wool & Silk Fibers with application by Exhaust.

### Special Properties

- Good whitening effect on Cellulosic , Polyamide , Wool & Silk.
- Very good whiteness in exhaustion.
- Good in low temperature dyeing for cellulosic fibers.
- Excellent brilliancy reddish violet whiteness after dyeing.
- Stable in one bath with hydrogen peroxide bleaching.
- Good pH range ( pH = 7 - 13).
- Good stability to alkali, peroxide and electrolyte.
- Liquid, pumpable formulation, Simple handling, suitable for automatic dispensing equipment.

### General Properties

APPEARANCE	Dark Blue liquid
CHEMICAL STRUCTURE	Amino Stilbene
IONIC CHARACTER	Derivative
pH (1% solution)	Light anion
SPECIFIC GRAFITY	Approx. 7 - 8
	Approx. 1.2

### Storage

SUNWHITE CEM Liq has good stability to long term storage. However, once opened, keep the product in a cool and dark place to avoid direct contacting with air and sunlight.

### APPLICATION Disolving/Diluting

The product must be carefully stirred before removal the container and is advisably diluted before use with about 10 – 20 times its weight of cold or warm soft water At 40 - 50°C. To preserve its stability , the dispersion must not be boiled up. **Stock solution can be prepared , but must be stirred before use** Stock solution should be kept away from sun light, also substrates treated with the whitening agent as long as it is not fixed.

**Required Amount**

**Suggested recipes - cellulosic fibers**

1. Dyeing after Scouring and Bleaching ( Two bath )
 

<b>SUNWHITE CEM LIQ</b>	<b>0.2 - 1.0 %</b>
SALT/GLAUBER'S SALT	0 - 5 g/l
LIQUOR RATIO	1:10 - 1:20
TEMP./TIME	70 - 100 °Cx30 min
  
2. **One bath with Scouring and Bleaching agents**

<b>SUNWHITE CEM LIQ</b>	<b>0.2 - 1.0 %</b>
HYDROGEN PEROXIDE 35% (H <sub>2</sub> O <sub>2</sub> )	4.0 - 8.0 g/l
MILENSTAB CT	1.0 - 2.0 g/l
MILENSCOUR LF	1.0 - 2.0 g/l
MILENQUEST PS	0.5 - 1.0 g/l
NaOH Flake	1.5 - 2.5 g/l
TEMP./TIME	100°Cx45 min
WASHING	Sufficient washing and Neutralization (To Remove hydrogen peroxide)

**Suggested recipes – polyamide**

**EXHAUST PROCES**

Mainly combined with scouring and reduction bleaching

SUNWHITE CEM LIQ	0.5 - 2 %
Hydrosulfite	1 - 3 g/l
MILENQUEST PS	0 - 2 g/l
MILENSCOUR LF	0.5 - 1 g/l
pH about 7	
Liquor Ratio	10:1 - 20:1
Temperature Range	120 - 90 °C
Treatment Time	20 - 60 Min

A final neutralization of the residues of reductive agent (with approx. 0.5 ml/l hydrogen peroxide 35 %) is recommended to avoid unpleasant odour and yellowing during drying at high temperatures.

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