TANUVAL UVL

Special UV-absorber to improve the light fastness of dyeings on polyester fibres with dispersing properties for disperse dyes

Properties and fields of application
- Improves the light fastness of dyeings with disperse dyes
- Temperature and storage stable product as it is a clear solution and not a dispersion
- High affinity for polyester
- No change of shades
- Very good bath stability of the product
- Very good dispersing properties for disperse dyes

General properties
- Chemical basis: Solution of surfactants and additives
- Ionicity: Anionic
- Form supplied: Clear, yellowish liquid
- Density (23 °C): 1.10 g/cm³
- Solubility: Miscible in water
- pH (10% solution): 3.0 – 5.0
- General stability: Stable to hard water and electrolytes, weak acids and alkalis
- Compatibility: Can be used together with anionic and nonionic products

Technical notes on application

General
TANUVAL UVL absorbs the UV-radiation and converts it in harmless heat energy. As a consequence the dyestuffs are protected. The dyeings show a better light fastness. In automotive applications the light fastness requirements are very high and the use of UV-absorbers is necessary to achieve the highest levels possible.

TANUVAL UVL shows additional benefits. It is a clear solution and shows good storage stability and easy handling. Additionally it provides excellent dispersing action for disperse dyes preventing filtration of disperse dyes, especially in polyester packages.

Dissolving / Dilution
Stir into hot water > 70 °C. Dilutions are not stable over a long period and should be used immediately. In automatic kitchens the product should be used
without dilution and be dosed directly. After delivery the pipeline should be flushed with hot water > 70 °C.

**Amounts required**

2 – 4,0 % **TANUVAL UVL**

**Guide recipe**

X % disperse dyes with high light fastness
(automotive) 0,5 – 1 m/l TANACID AB (pH 4,5 – 5)
0,5 – 1 ml/l LEVEGAL UNI
0,5 – 1 ml/l TANEDE AXL
2,0 – 4 ml/l TANUVAL UVL

For **TANUVAL UVL** to be fully effective, any heat setting required should be carried out before the product is applied. If this cannot be done, setting times should be as short and temperatures as low as possible after dyeing. To avoid impairment of effects the setting times of the goods should not be longer than 30 seconds at a temperature not above 170 °C.

**Aspect**

**TANUVAL UVL**    other UV absorber for PES
Lig ht fastness

Without 3% TANUVAL UVL

Storage stability
12 months from delivery in closed containers. TANUVAL UVL is sensitive to frost. Do not allow the product temperature to drop below 10°C.

Note on safety
Information on handling and ecological and toxicological behaviour is contained in the safety data sheet for TANUVAL UVL.

Specifications
For further details, please refer to the product specification for TANUVAL UVL.

General note on product designations
Under statutory regulation on occupational safety, environmental protection and transportation, all changes to the composition of products must be indicated. Changes are indicated by adding numbers to the product designation, e.g. 01, 02, etc. They do not alter the technical properties of the product.

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