

TECHNICAL INFORMATION

DT-CFL 003

Introduction

DT-CFL 003 Liquid is a special, stabilized formaldehyde-free crosslinking agent to improve the efficiency of polyurethane dispersions and fluorocarbon products.

DT-CFL 003:

- Considerably improves the resistance of the oil and water repellent effects
- Improves the durability of cross-linkable dispersions in pad application and in lamination
- In case of polyurethane based products, the durability and resistance can be further improved
- Applied before lamination it improves adhesion of the coating

1. Properties

Appearance: White to slightly brown dispersion

Composition: Polyurethane, liquid dispersion

Ionicity: Nonionic

pH: 5.0

Density at 0 °C: Ca. 1

Dilutability: By pouring over cold water

Compatibility with other finishing products:

- | | |
|----------------------|------|
| • Nonionic products: | Good |
| • Anionic products: | Good |
| • Cationic products: | Good |

Stability:

- | | |
|-----------------|------|
| • Weak acids: | Good |
| • Weak alkalis: | Good |
| • Hard water: | Good |

Storage Stability: 6 months at temperature of 0 °C – 40 °C. The product is not sensitive to frost.

Eco-toxicological data: See MSDS

2. Application process:

DT-CFL 003 is applied by the padding process.

DT-CFL 003 is diluted with cold water at least 1:1 and then added to the finishing bath. In laminating pastes the product is added undiluted.

DT-CFL 003 requires the following conditions for curing:

150 – 160 °C, 3 – 4 minutes

170 – 180 °C, 20 – 40 seconds

3. Applicable amounts:

Depending on the purpose, the applicable amount is 5 – 20 g/L or about 10 – 20% of the whole formulation.

Higher amounts can lead to hardening of the handle and impairment of the shade. Pre-trials are recommended.

4. Sample applications:

For improvement of wash fastness of repellents:

PES/CO or 100% Cotton:

Acetic acid 80%	1 g/L
Repellent	30 – 50 g/L
DT-CFL 003	5 – 10 g/L

Pad, dry

All OSM Shield chemical auxiliaries are [Bluesign](#) approved, [REACH](#) compliant, [ZDHC Level 1](#) registered, [PFC-Free](#), and [PFOA-free](#).