

TECHNICAL INFORMATION

EVO MV

Introduction

EVO MV is a fluorine-free agent for generating water repellency, rainproof finishing on mainly synthetic fibers and their blends. EVO MV is formulated to be used independent of additional DWR auxiliaries, including crosslinking agents.

EVO MV:

- Not based on fluorine chemistry
- All-in-one formulation for improved processability
- Improved durability to home laundering
- PFC, APEO, PFOA, PFOS-free

1. Properties

Appearance:	Liquid, whitish – light yellow
Composition:	Acrylate copolymer
Ionicity:	Cationic
pH:	about 3.0 – 4.0
Specific Gravity:	about 1 g/cm ³
Solubility:	Readily miscible in cold water
Compatibility with other finishing products:	Compatible with OSM Shield approved auxiliaries
Storage:	6 – 12 months (should be stored at temperatures between 5 and 40 C, keep from freezing)
Eco-toxicological data:	See MSDS

2. Application Properties

2.1 Hydrophobic effect:

Very good values of durability are achieved if the product is used in accordance with the recipe.

2.2 Handle

Neutral handle

3. Application

EVO MV can be applied by padding. Other application methods are available per discussion with OSM Shield.

- The amounts used are determined on a per-fabric basis, depending on the fiber type & fabric construction, please consult with OSM Shield for mixing recipe.

-Recommended concentrations (based on 100% WPU) are:

For less durability: 35 – 45 g/L

For standard durability: 53 – 70 g/L

For high durability: 105 – 120 g/L

-The pH of the finishing liquor should be 4.0 – 5.0 and may need to be adjusted with 0.25-1.0 ml/L acetic acid

The water-repellent effects can be impaired by residues of auxiliaries on the goods being finished such as fiber finish oils, sizes, surfactants or dyeing assistants. This is also the case when silicone-containing finish oils or softeners are used. We therefore recommend preliminary washing with 1 g/L non-foaming sequestering agent and acidification with 1 ml/L acetic acid 60%. The same impairment of the repellent effects will occur by adding analogous auxiliaries into the finishing liquor.

EVO MV requires curing temperatures of 150 C for 3 minutes or 170-180 C for 40-60 s (once fabric has been fully dried).

For best results, follow the mixing recipe and curing procedure provided by OSM Shield.

All OSM Shield chemical auxiliaries are [Bluesign](#) approved, [ZDHC](#) (MRSL 2.0) Level 1 registered, [REACH](#) compliant, [PFC-Free](#), and [PFOA-free](#).