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TECHNICAL INFORMATION

NORR MV 043-003

Introduction

NORR MV 043-003 is a water-based fluorocarbon polymer emulsion for the water and oil repellency of textile goods.

NORR MV 043-003:

- Imparts excellent dynamic water repellency on all substrates, especially synthetic fibers
- Excellent processability
- Displays low sensitivity to residues on the goods
- PFOA, PFOS-free



1. Properties

Appearance:	Light yellow emulsion
Composition:	Dispersion of a fluorine compound
Ionicity:	Nonionic
pH:	3
Specific Gravity:	1 - 1.1 g/cm ³
Dilutability:	Dilutable in cold water
Compatibility with other finishing products:	Compatible with most finishing agents, consult with OSM Shield
Storage:	18 months (in 5-40 C condition), avoid freezing
Eco-toxicological data:	See MSDS

2. Application Properties

2.1 Padding Process

Standard Recipe:

20 – 60 g/L NORR MV 043-003

High Durability Recipe:

70 – 100 g/L NORR MV 043-003

Standard curing conditions are 160 – 180 °C for 60 – 100 sec. Curing temperature and dwell time are dependent on the fabric weight and properties. OSM Shield will prescribe a curing procedure on a per-fabric basis.

3. Application

NORR MV 043-003 can be applied by padding.

- Depending on the type of fiber and performance requirements, the amounts used are determined on a per-fabric basis. Please consult with OSM Shield for mixing recipe.
- The pH of the finishing liquor should be 3-7 and may need to be adjusted with 0.25-1.0 g/L acetic acid.

The water- and oil-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.

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

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