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TECHNICAL INFORMATION
NUVA® N2155 liquid

Introduction

NUVA® N2155 liq is a concentrated product for technical articles and synthetic based fibers for water-, oil and alcohol-repellent effects. Main application area are textiles made of synthetic and cellulosic fibres and their blends. Due to it's low temperature profile it is even suitible for PP and it's mixtures. The product can be used on wool and silk too.

NUVA® N2155 liq shows already at low temperature an extremely good initial performance (LTC performance)

NUVA® N2155 liq has good compatibilities with other textile auxiliaries.

NUVA® N2155 liq displays low sensitivity to residues on the goods.

NUVA® N2155 liq offers high washing durabilites by using a blocked isocyanate (e.g. Arkophob DAN New)

NUVA® N2155 liq belongs to a generation of high LAD (laundry air dry potential) if applied with a blocked isocyanate

NUVA® N2155 liq shows good stabilities against atmospheric conditions and UV-radiation

NUVA® N2155 liq does neither contain detectable amounts of PFOS nor PFOA.

1. Properties

Appearance	Liquid dispersion
Composition	Dispersion of a fluorine compound
Ionicity	nonionic / amphoteric
pH (5% as it is; DIN EN 1262)	3.0 – 5.0
Density (25°C, DIN 51 757)	about 1 g/cm^3
Flash point (DIN 51 755)	> 100°C
Dilutability	Miscible in all proportions with (cold) water
Compatibility with other finishing products	Compatible with numerous crosslinking agents, catalysts, softeners and other textile auxiliaries. Preliminary trials are recommended paricular in combination with anionic products.
Storage	Can be kept for at least 12 months if stored correctly (between 5°C and 40°C). Some precipitatioin can occurs.
Eco-toxicological data	See Safety Data Sheet

2. Application properties

Oleophobic-/hydrophobic effect
Very good values are achieved if the product is used in accordance with the recipe.

Handle
Neutral handle

3. Application

NUVA® N2155 liq can be applied by padding, foam and spray*) methods.

Depending on the type of fibre and requirements, the amounts used are 10 - 70 g/l for padding. The pH of the finishing liquor should be 4 - 5 and may need to be adjusted with 0.5 - 1.0 ml/l acetic acid 60 %.

The water- and oil-repellent effects can be impaired by residues of auxiliaries on the goods being finished such as fibre 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 **Ladiquest® 1097N liq** followed by rinsing and acidification with 1 ml/l acetic acid 60 %.

May promote thermomigration on disperse dyed polyester. Pretrials recommended

*) Safety hints

If **NUVA® N2155 liq** is applied by **spraying** sufficient **ventilation** is essential or **respiratory protection** must be used. **Atomised product must not be inhaled**.

4. Application examples (for achieving good wash durability, Arkophob DAN New has to be added to the

100 % PA or PES

20 - 50	g/l	**NUVA® N2155 liq**
3 - 6	g/l	**Fluowet® UD liq**
X	g/l	**ARKOPHOB® DAN NEW liq** - depending on the required wash durability
1	ml/l	acetic acid 60%

- pad, dry at 120°C for 1 - 3 min
- cure for 1 - 3 min. at 150 - 170°C or 30 - 40 s at 170 - 180°C.

100% PAN

10 - 30	g/l	**NUVA® N2155 liq**
20 - 40	g/l	**Cassurit® LFC liq**
4 - 10	g/l	**Catalyst CR liq**
3 - 6	g/l	**Fluowet® UD liq**
1	ml/l	acetic acid 60%

- pad, dry and cure at 110 - 130°C for 1 - 3 min
- cure for 1 - 3 min. at 150 - 170°C or 30 - 40 s at 170 - 180°C.

100% Co

40 - 80	g/l	**NUVA® N2155 liq**
120 - 140	g/l	**Arkophob® 2150 liq**
X	g/l	**ARKOPHOB® DAN NEW liq** - depending on the required wash durability
1	ml/l	acetic acid 60%

- pad, dry at 110 - 130°C for 1 - 3 min
- cure for 3 min. at 150 - 170°C.

5. Disposal of fluorine containing liquor

Please note that all fluorine containing liquors whether they are long-chain types (C8) or short chain types (C6 or C4) should not be discharged to the wastewater.

Respect the following guidelines:

- The wastewater drain is never an appropriate disposal system for chemicals such as residual pad bath liquor
- Collect liquors containing fluorinated repellent for separate treatment. Consult SDS Section 13 for guidance
- Reuse residual pad bath liquor if possible and appropriate
- Minimize waste water by minimizing change overs and collect all wash/rinse water before and after each run.