

## TECHNICAL INFORMATION

# NUVA<sup>®</sup> N2155 liquid

### Introduction

**NUVA<sup>®</sup> 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 suitable for PP and it's mixtures. The product can be used on wool and silk too.

**NUVA<sup>®</sup> N2155 liq.** shows already at low temperature an extremely good performance (LTC performance)

**NUVA<sup>®</sup> N2155 liq.** has good compatibilities with other textile auxiliaries.

**NUVA<sup>®</sup> N2155 liq.** displays low sensitivity to residues on the goods.

**NUVA<sup>®</sup> N2155 liq.** offers high washing durabilities by using a blocked isocyanate

**NUVA<sup>®</sup> N2155 liq.** belongs to a generation of high LAD (laundry air dry potential)

**NUVA<sup>®</sup> N2155 liq.** shows good stabilities against atmospheric conditions and UV-radiation

**NUVA<sup>®</sup> N2155 liq.** does neither contain detectable amounts of PFOS nor PFOA.

## 1. Properties

|   |   |
|---|---|
| Appearance                                  | Liquid, white dispersion  |
| Composition                                 | Dispersion of a fluorine compound   |
| Ionicity                                    | nonionic / amphoteric   |
| pH (5% as it is; DIN EN 1262)               | about 4.5   |
| Density (25°C, DIN 51 757)                  | about 1 g/cm <sup>3</sup>   |
| 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 particular in combination with anionic products. |
| Storage                                     | Can be kept for at least 12 months if stored correctly (between 5°C and 40°C).  |
| 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<sup>\*)</sup> 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

### <sup>\*)</sup> 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

##### 100 % PA or PES

20 - 50 g/l **NUVA® N2155 liq.**

3 - 6 g/l **Fluowet UD liq.**

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 MT liq.**

4 - 10 g/l **Catalysator 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 **Cerol EX liq.**

1 ml/l acetic acid 60%

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



Product® meets the bluesign®<sup>1</sup> criteria.

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Archroma makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Archroma's products for its particular application. \* Nothing included in this information waives any of Archroma's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Archroma products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Archroma. \*For sales to customers located within the United States and Canada the following applies in addition: NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE.

® Trademark of Archroma registered in many countries

<sup>1</sup> Registered trademark of bluesign Technologies AG

© 2013 Archroma

