

®RUCO-BAC AGP

COMPOSITION

Preparation of inorganic salts and surfactants, anionic

USES

Anti-microbial preservative finish for all fibre types, highly resistant to washing, especially suitable for textiles worn next to the skin.

PROPERTIES

- Non-migrating bacteriocidal and slightly fungicidal properties for textile protection
- Highly resistant to washing and dry cleaning; on polypropylene limited resistance of antibacterial effects to washing and dry cleaning
- **RUCO-BAC AGP** has no effect on existing or imparted hydrophilic properties
- Compatible with optical brighteners and many textile auxiliaries; preliminary trials regarding liquor compatibility, especially in combination with cationic products, are recommended
- Does not affect the rub, perspiration or light fastness of dyeings
- Resistant to yellowing
- Resistant to higher drying temperatures
- Stable at pH 3 – 11
- bluesign® APPROVED
- Öko-Tex® Standard 100 compliant (www.oeko-tex.com)
- BfR*-registration card No.: 36541
- Registered according to the European biocide product regulation in Germany: N-12827
- EPA**-registration No.: 84189-2
- Registered to biocidal inventory of Health Ministry in Turkey

TECHNICAL DATA

- White, milky suspension
- Specific gravity at 20°C ca. 1.1 g/cm³
- pH value ca. 7
- Easily dispersible in cold or warm water

APPLICATION

RUCO-BAC AGP has to be pre-diluted with cold water whilst stirring thoroughly prior to adding it to the initial liquor to ensure optimum product dispersion. The initial liquors should be immediately used and filtered in advance. Avoid prolonged standing due to the light sensitivity and tendency of **RUCO-BAC AGP** to sediment in standing liquors. We recommend to stir continuously in extended continuous application processes.

Ensure that the ready-for-finishing fabric, especially in the case of optically brightened textiles or pale shades, has been adjusted to a neutral pH value with non-volatile acid, such as citric acid, or the non-volatile buffer system **RUCO-ACID ABS 200**.

Padding process

0.5	-	2.0	g/l	RUCO-BAC AGP (Economy standard finish)
2.0	-	5.0	g/l	RUCO-BAC AGP (Performance standard finish)

Special case wool

10	-	20	g/l	RUCO-BAC AGP (Economy/performance standard finish)
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Adjust fabric pH to 4.5 – 5 with non-volatile acid, such as citric acid or **RUCO-ACID ABS 200**.

liquor pick-up	ca. 60 - 70%
dry	at 100 - 170°C

Information on application

Keep as little liquor in the pad trough as possible to ensure optimum product application.

Exhaust method	0.05 - 0.2 %	RUCO-BAC AGP (Economy standard finish)
	0.2 - 0.5 %	RUCO-BAC AGP (Performance standard finish)
Special case wool	1.0 - 2.0 %	RUCO-BAC AGP (Economy/performance standard finish)
	liquor ratio	10 : 1

Adjust fabric pH to 4.5 – 5 with non-volatile acid, such as citric acid or **RUCO-ACID ABS 200**.

temperature	40 - 50°C
time	15 - 30 min

Afterwards, drain without rinsing and dry at 100 - 170°C.
The product might foam in case of high liquor turbulences, e.g. in jet dyeing machines.

Information on application

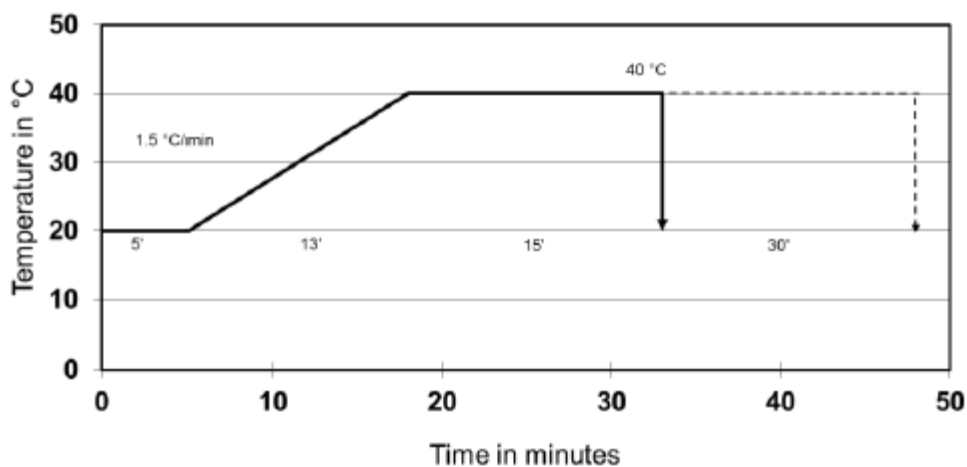
In case of insufficient liquor circulation, we recommend to add the **RUCO-BAC AGP** initial liquor in portions for a period of 30 min.

Procedure for yarn treatment by bath process

liquor ratio	1:10
liquor flew cycle	only outside inside
temperature	40°C
final temperature	15 – 30 min

drain, no rinsing, hydroextract, drying

Temperature - time profile



“HYGIENE AND FRESHNESS” for PES fibres and their blends

30 - 40	g/l	FERAN ICS
20 - 30	g/l	RUCO-PUR SEC
2 - 4	g/l	RUCO-BAC AGP
liquor pick-up		%50
pH value		4.5 - 5.0 (acetic acid)
drying		under the usual conditions

INFORMATION POLYPROPYLENE

On textiles from 100% polypropylene the resistance of the anti-bacterial effects to washing and dry cleaning is limited due to lacking fibre function.

INFORMATION ON SPRAYING APPLICATION

During the spraying of textile auxiliaries aerosols arise. They may be a potential danger for man. Therefore spray in closed installations only, or else discharge optimally and provide for good room ventilation to avoid spreading of the aerosols in the work environment. Do not breathe in aerosols!

INFORMATION ON WATER/OIL-REPELLENT FINISHES

RUCO-BAC AGP is compatible with water/oil-repellent finishing agents. In individual cases, the performance can be slightly affected by the one-bath use of **RUCO-BAC AGP**, which can be offset by increasing the application quantity of water/oil-repellent finishing agents. Preliminary trials are recommended.

INFORMATION ON ONE-BATH APPLICATION WITH OTHER PRODUCTS

In the one-bath application with **RUCO-BAC AGP** the individual products must be prediluted with water to avoid agglomerations.

LABORATORY TEST METHOD

RUCO-BAC AGP is a non-migrating, anti-microbial product. The test methods we therefore recommend are as follows:

1. **ASTM-E2149 (“Dynamic Shake Flask” test method)**
2. **AATCC 100**

These tests both have a 24 h dwell time for testing the anti-bacterial activity. The following independent test institute, amongst others, conducts anti-bacterial tests.

Biotech Testing Services
104, Malwa, Ptanwala Ind. Estate,
L.B.S. Marg, Opp. Shreyas Cinema, Ghatkopar (West)
Mumbai - 400 086, India

STORAGE

The product is sensitive to frost and must not be stored at temperatures below 0°C. Irreparable damage is possible. In case of suspected frost damage, the usability of the product has to be checked before processing. The product is sensitive to heat and must not be stored at temperatures above 30°C. Irreparable damage is possible. If stored too warm, the usability of the product has to be checked before processing.

The product may change after prolonged standing (e.g. form creamings, sediment, separate). Please stir well before use.

The product is sensitive to light and must be protected against direct sun. Discolouration of RUCO-BAC AGP does not affect performance.

In order to avoid quality loss, it is necessary to always close the drums after use.

Stir or shake well before use.



ATTENTION

The above recommendations are based on comprehensive studies and experience made in practical finishing. They are, however, without liability regarding property rights of third parties and foreign laws. The user should test for himself whether the product and the application are suited for his very special purposes.

We are, above all, not liable for fields and methods of application which have not been put down by us in writing. Advice for labelling obligation and protective measures can be taken from the respective safety data sheet.

Use biocides safely. Always read the label and product information before use.

NOTICE

Depending on the national, state, etc. legislation, substrates that are finished with **RUCOBAC AGP** will have to be registered with and/or authorised by the responsible agency.

RUDOLF GMBH and its respective national affiliated companies, agencies, etc. are not liable if substrates finished with **RUCO-BAC AGP** have not been registered and/or authorised.

The responsibility lies exclusively with the person putting substrates that are finished with **RUCO-BAC AGP** into circulation.

Information on labelling textiles that have been finished with a biocide according to Biocidal Products Regulation (EU) 528/2012

In the EU, textiles which have been finished with a biocide have to be labelled accordingly since 1st September 2013.

This means that the following information (in the respective language of the country, where the goods are to be sold) will have to be firmly fixed to the goods:

- a) A declaration stating that the treated goods contain biocides;
- b) Information on the antimicrobial protective finish of goods treated with it;
- c) Naming all biocidal substances present;
- d) Naming all nanomaterials contained in the treated goods, followed by the word "nano" in brackets. This is not applicable for **RUCO-BAC AGP**.

This information is based on what we know at the time the Biocidal Products Regulation (EU) 528/2012 has been published. However, the user himself is responsible for assessing his labelling and for ensuring compliance with the Biocidal Products Regulation (EU) 528/2012.

GUIDANCE REGARDING THE U.S. TREATED ARTICLE POLICY

To ensure compliance with U.S. EPA regulations, we recommend observing the requirements as identified in the U.S. "Treated Article Exemption Policy" (PR Notice 2000-1, Homepage: http://www.epa.gov/PR_Notices/pr2000-1.pdf).

You may wish to hire an expert in the area of the U.S. treated article policy. **RUDOLF GROUP** recommends Technology Sciences Group Inc. located in Washington, DC. (website: www.tsgusa.com). For further information, please contact Mrs. Erin Tesch. (email: etesch@tsgusa.com or tel. 202-828-8966).

FIRST AID MEASURES

- **General information:**
In case of continuous symptoms consult a doctor.
- **After inhalation:**
Supply fresh air; in case of continuous symptoms consult a doctor.
- **After skin contact:**
Wash off immediately with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse for several minutes under running water with eyes open and consult a doctor.
- **After swallowing:**
See a doctor immediately.
Do not induce vomiting.
Do not put anything in the mouth of unconscious persons.



INFORMATION ON DISPOSAL

1. **Waste treatment methods**

Recommendations:

Dispose of separately by adhering to the official regulations.

2. **Uncleaned packaging**

Recommendations:

Dispose of according to official regulations

* Bundesinstitut für Risikobewertung (federal risk-evaluation institute), D

** Environmental Protection Agency, USA

