

Unique Hydrophilic Non-ionic
Finishing Softner Base

RSF-AT-100

Suitable For All Fabrics

For

Exhaust & Padding Application



RSA Industries Pvt. Ltd.

Ranka Bhavan, 110, Dhantoli, Nagpur – 440 012 (INDIA)
Tel: 0091-7104-237663 / 236739 Fax: 0091-7104-236417 / 0091-712-2421729
Email: sales@ranchemicals.in / marketing@rsaindustries.in
Website: www.ranchemicals.in / www.rsaindustries.in



RSF-AT-100

APPLICATION

Hydrophilic non-ionic polymeric finishing base for exhaust and padding applications.

Can be blended with cationics and silicones for better economics and performance.

Suitable for all types of fabrics like Woven Cotton, Cotton Knits, Terry Towel, Polyester.

CHEMISTRY FOR PERFORMANCE

- Excellent softness and Superior surface smoothness, with Good bulk.
- Non-yellowing and hydrophilic in nature. Retains brilliancy.
- Can compete with silicone and cationic with better performance & economics.
- Finishing performance can be enhanced as per individual's requirement by combining with silicones and cationics.
- The blended product retains good hydrophilicity even if the blended silicone and cationic is hydrophobic.
- The base and the blended diluted product are stable.
- No tonal variation
- Easy dilution procedure

CHEMISTRY FOR ECONOMICS

- Product gives good cost saving with performance due to lower dosage.
- 1 kg of cationic flakes can be replaced by 200 gms of blended Product.
(140 gms of hydrophilic base and 60 gms cationic flakes)

PHYSICAL PROPERTIES

Product	Appearance	pH	Pack Size
Non-Ionic Polymeric speciality softener Bio-degradable, Eco-friendly	Yellowish viscous liquid	6 – 6.5	50 kg narrow mouth HDPE Carboyes.

Recommended dosages for different fabrics

S. No.	Substrate	Method	Doses at 20% solids (After 1: 4.5 Dilution)
1.	Woven Cotton	Padding	10 – 40 gpl
2.	Cotton Knits	Padding	5 – 20 gpl
3.	Cotton Knits	Exhaust	1 – 1.5 gpl
4.	Terry Towel	Exhaust	10 – 40 gpl
5.	Polyester & its blends	Padding	5 – 20 %

RSA Industries Pvt. Ltd.

Ranka Bhawan, 110, Dhantoli, Nagpur-440 012 (INDIA)

Tel: 0091-7104-237663 / 236739 Fax: 0091-7104-236417 / 0091-712-2421729

Email: sales@ranchemicals.in/ sales@rsaindustries.in Website: www.ranchemicals.in / www.rsaindustries.in

**Note:**

- Liquor ratio (1:10) in exhaust.
- Do not add the product directly in the machine.
- Maintain the pH 5 - 5.5 by Acetic Acid.
- Check the feel after conditioning only.

Special Note

- Higher the temperature of curing better will be the result.
- Our softener will show expected result after complete conditioning of the fabric.
- The dose level is to be decided as per the individual's requirement and their finishing cost.
- The dose level of our product is quite low and hence is economical with good results.
- Higher performance can also be achieved by blending with silicones and cationics.

DILUTION PROCEDURE

- Shake the carboy well before making the dilution.
- The dilution can be by soft and warm water at 80°C -85°C under stirring i.e. adding 3.9 parts of water to 1.1 part of our product to make 20% solution.

SUGGESTED COMBINATIONS WITH CATIONICS

S.No	Item	System	Parts	Parts
A	RSF-AT-100	for exhaust & better softness	70	60
B	CATIONIC FLAKES		30	40

Note: We recommend to make blend of non-ionic base RSF-AT-100 with cationic up-to maximum 40% concentration. The procedure is given in annexure - I

SUGGESTED COMBINATIONS WITH SILICONE

- Note:**
1. It is always advisable to use silicones separately with hydrophilic base RSF-AT-100
 2. For finishing of fine counts fabric to control seam slippage in padding method we recommend to use only 5 % dose of silicone along-with Non-ionic base RSF-AT-100
 3. For hydrophilic & non yellowing application one should use 80% hydrophilic base RSF-AT-100 & 20% hydrophilic silicone.

The literature indicates general information guidelines on our product for their use. The user should check the suitability of the product for his own use. We make no warranty of any kind expressed or implied. Industrial safety practice is to be followed. We take no responsibility and expressly disclaim liabilities for law, damage or expense rising out of or in any way connected with the handling, storage, use or disposable of the product.

RSA Industries Pvt. Ltd.

Ranka Bhawan, 110, Dhantoli, Nagpur-440 012 (INDIA)

Tel: 0091-7104-237663 / 236739 Fax: 0091-7104-236417 / 0091-712-2421729

Email: sales@ranchemicals.in/ sales@rsaindustries.in Website: www.ranchemicals.in / www.rsaindustries.in



Annexure - I

PROCEDURE FOR CATIONIC BLEND **FROM** **HYDROPHILIC BASE TO COMPETE CATIONIC FLAKES**

1 kg of Cationic flakes (100%) can now be replaced by 1 kg of RSF-AT-20 (C) 20 % solids

Recipe for ready to use softener RSF-AT-20 (C):

S.No.	Ingredient	Qty. for 20% softner		Qty. for 40% softner	
		70:30 ratio	60:40 ratio	70:30 ratio	60:40 ratio
1.	RSF-AT-100	14	12	28	24
2	CATIONIC FLAKES	6	8	12	16
3	RO WATER	80	80	60	60
TOTAL		100	100	100	100

Procedure

- Take Non-ionic base RSF-AT-100 in the melting vessel.
- Start heating. The material will melt around 70°C. Once the materials are in the molten state, start stirring and add cationic flakes & heat further to 80°C. & maintain 1-2 hrs at 80 -85° C under stirring.
- Start adding pre-weighed quantity of RO water under stirring in the mixing vessel.
- After complete addition of water heat up-to 80 -85°C for 1 hours under stirring
- Mix uniformly. Cool up-to 50 - 55°C and filter through 40 mesh screen.
- Pack the filtered product in suitable carboys.

Note: The above 20% product is ready to use which can replace 1kg of cationic flake.

We recommend maximum 40% concentration of the above formulation which can be in paste form & easy to dilute

RSA Industries Pvt. Ltd.

Ranka Bhawan, 110, Dhantoli, Nagpur-440 012 (INDIA)

Tel: 0091-7104-237663 / 236739 Fax: 0091-7104-236417 / 0091-712-2421729

Email: sales@ranchemicals.in/ sales@rsaindustries.in Website: www.ranchemicals.in / www.rsaindustries.in