
VISCAVIN® AP 1A

Character	Multifunctional P-free combination product for discontinuous and continuous pretreatment processes
Chemical Character	Synergistic mix of modified fatty alcohol ethoxylates, organic stabilisers and sequestering agents including comb polymers
Appearance	Clear, colourless liquid
Ionic Character	Anionic
pH Value of the product	3.0 - 3.6
Specific Weight at 20 °C	1.07 ± 0.03
Stabilities	VISCAVIN AP 1A is stable to acids, alkalis, metal salts as well as to oxidation, reduction agents and hardening substances of water in the usual industrial concentrations. The product is not sensitive to frost.

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

Properties

VISCAVIN AP 1A is a truly all-round, multifunctional P-free* combination product for the application in the discontinuous and continuous pretreatment on all kind of synthetic and cellulosic fibres. It can be applied in the enzymatic desize, the scouring, the peroxide bleach and in washing processes. The product stands out with its excellent wetting, re-wetting and emulsifying properties. In addition VISCAVIN AP 1A has a very good stabilising power on hydrogen peroxide and a good sequestering power on hardening substances and catalytes. Due to the surface active properties the impurities on cotton can be separated, eliminated more easily by washing, and the soiling substances can be better prevented from reabsorbing. The simultaneous sequestration of hardening substances and catalytes counteracts the formation of precipitations and catalytic damages in the peroxide bleach. In most of the cases the application of the multifunctional VISCAVIN AP 1A is sufficient, there is no need of other products, so that the process is clearly simplified, and error sources can be reduced.

The CHT polymer technology incorporated in VISCAVIN AP 1A promotes the washing off of oxidised fibre accompanying substances. High whiteness degrees with hardly any fabric damage result.

VISCAVIN AP 1A is a low viscous, highly stable and water-clear auxiliary, applicable on automatic dosing systems with no gelation problems and due to its low foaming behaviour no addition of any defoamer is required, even in high turbulence jet machines.

* P-content < 0,05 %

Application Technique

Diluting Instructions

VISCAVIN AP 1A can be easily diluted in cold and warm water. The product can also be added directly to the treatment liquor without being pre-diluted.

Application Fields

VISCAVIN AP 1A is suitable for the application in the discontinuous and continuous pretreatment on all kind of synthetic and cellulosic fibres.

Recipe Proposals

1. Desizing

As VISCAVIN AP 1A is compatible with enzymatic desize agents (bacteria preparations and pancreas amylases), it is suitable to be applied in enzymatic desize processes as wetting agent and to emulsify size fats. In addition the application of VISCAVIN AP 1A to eliminate synthetic sizes is possible. The sequestering and dispersing effect of the product supports the elimination of the size and minimises the risk of the formation of precipitations.

a) Discontinuous desizing:

1.0 - 3.0 ml/l VISCAVIN AP 1A

b) Continuous desizing:

4.0 - 10.0 ml/l VISCAVIN AP 1A

2. Pre-Scouring of natural and synthetic fibres and their blends including elastane

Depending on the soiling degree and the liquor ratio, we recommend the following application quantities:

a) Discontinuous scouring:

2.0 - 3.0 ml/l VISCAVIN AP 1A

b) Continuous scouring:

4.0 - 10.0 ml/l VISCAVIN AP 1A

3. Peroxide bleaching

The product can be applied with success in the bleaching process on cellulosic fabrics. Depending on the soiling degree the following application quantities are recommended:

a) Discontinuous bleaching procedure:

0,8 - 3.0 ml/l VISCAVIN AP 1A

b) Semi- and continuous bleaching procedure:

8.0 - 12.0 ml/l VISCAVIN AP 1A

Recipe example for the discontinuous peroxide bleach on cotton knit:

0,8 - 3.0 ml/l	VISCAVIN AP 1A
1.0 - 2.5 g/l	NaOH 100%
1.5 - 3.5 ml/l	H ₂ O ₂ 50% for ready for dyeing
6.0 - 8.0 ml/l	H ₂ O ₂ 50% for full white
0.3 - 0.6 %	TUBOBLANC HA
20 – 45 min at 95-110 °C	

Recipe example for a continuous pad steam peroxide bleach on pre-sized cotton woven:

8 - 10 ml/kg	VISCAVIN AP 1A
10 - 20 g/kg	NaOH 100%
15 - 40 ml/kg	H ₂ O ₂ 50%
15 – 20 min steaming	

Recipe example for peroxide cold bleach on cotton grey fabric (starch-sized fabric):

9.0 - 12.0 ml/l	VISCAVIN AP 1A
0 - 10.0 ml/l	Silicate of soda
15.0 - 40.0 g/l	NaOH 100 %
20.0 - 50.0 ml/l	H ₂ O ₂ 50%
0 - 5.0 g/l	Persulphate
Liquor pick-up: 80 - 100 %	
Impreg. temperature: 20 - 30 °C	
Batching time: 16 – 24 h at room temperature	

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods, which are beyond our control.

Edition: March 2022

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