

BEIZYM SPELL

Character	Concentrated cellulase blend for biofinish and surface treatment at 40 - 60 °C with lint dispersant and hydrophilic effect
Chemical Character	Special cellulase blend
Appearance	Yellow, light brown, liquid
Ionic Character	Non-ionic
pH Value	5.0 – 6.0
Apparent Weight at 20 °C	1.07
Stabilities	<p>Strong acids and alkalis impair the efficiency of BEIZYM SPELL. Wetting agents and detergents with anionic character also impair the activity.</p> <p>The product is sensitive to frost to a certain extent; changes occurring at low temperatures disappear after warming up and stirring thoroughly.</p> <p>The product ought to be stored at a temperature of 20 – 30 °C in closed containers. A prolonged storage at temperatures above 30 °C must be avoided.</p> <p>With a storage < 30 °C the product will hold for six months. With a prolonged storage up to twelve months 20 % more of the product will have to be used.</p> <p>With a storage of even more than twelve months the enzyme activity will decrease by up to 50 %.</p>

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

BEIZYM SPELL is a highly efficient cellulase blend with the following application range:

- Biofinish treatment of viscose and cotton and blends, also of dyed articles

The following effects are achieved:

- reduced tendency to pilling
- clear surface structures
- less lint on the surface
- higher surface slip and silky gloss
- improved hydrophilicity

The surface look of many repair parts with grinding and chafe marks can be considerably improved by means of a treatment with BEIZYM SPELL.

Satisfying results are exclusively accomplished on machines with mechanical strain/ liquor turbulence (jet, overflow, drum, discontinuous tumbler, etc.) because they make fibre tips and lint break off and detach from the textile surface.

Special Characteristics

In comparison to a surface treatment with common cellulases BEIZYM SPELL has the following advantages:

- efficient on CV and on highly twisted CO qualities and its blends
- efficient on turquoise, black and critical shades as well as on striped articles with different colours
- broad application range from pH 5.0 - 7.0, thus higher process safety and reproducibility
- treatment temperature of 40 – 60 °C with a short running time of 20 min possible –time savings!
- clearly less staining when treating dyed articles in a neutral pH range at 40 °C
- no or clearly less shade deviations when working in a neutral pH range
- reduced weight or strength losses
- contains lint dispersants

Application Technique

Diluting Instructions

BEIZYM SPELL can be diluted before being added to the machine by stirring it into cold or warm water (not higher than 45 °C).

In case of machines with direct heating it should first be heated up to treatment temperature in order to prevent an impact on the enzymatic activity.

Recommendation for Use

For biofinish treatment and surface treatment:

The application quantities of BEIZYM SPELL depend on the product quality to be treated and on the desired surface effect.

The following recipe indications serve as guidelines:

Standard recipe: 0.5 - 2.0% BEIZYM SPELL,

related to the fabric weight of the CEL share

Liquor ratio: 1 : 5 - 1 : 20

Temperature: 40 - 60 °C

pH value: 5.0 - 7.0, preferably adjusted with acetic acid/sodium acetate; the pH adjustment must be done before adding the enzyme

Treatment time: 20 - 45 min, depending on the dosage

After completion of the BEIZYM SPELL treatment the enzymatic activity is stopped by increasing the pH value to 9 - 10 with soda ash or by increasing the temperature to 80 °C. This can either take place in the same bath or in the first rinsing bath after the treatment. Afterwards, rinse and complete.

An overdose of the enzyme, a reaction time which is too long as well as an enzymatic stop which is not carried out properly can cause irreparable fibre damages.

Simple pre-trials in the laboratory help adjust the correct application amounts.

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.

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