BEICONTROL RD

Character	Alkali donor for reactive dyeing
Chemical Character	Inorganic buffer solution
Appearance	Colourless, clear liquid
Ionic Character	Anionic
pH Value of 10 % Solution	> 13
Specific Weight at 20 °C	Approx. 1.30 – 1.34
Stabilities	BEICONTROL RD is stable to alkalis and electrolytes. BEICONTROL RD is compatible with all chemicals and textile auxiliaries used in reactive dyeing. The product is sensitive to frost to a limited extent; changes occurring at low temperatures disappear when warming up the product and stirring it thoroughly.
Storage	The product can be stored for 12 months in its original closed packaging under appropriate conditions.

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

BEICONTROL RD serves as alkali donor in reactive dyeing on all types of cotton and its blends. Thus, BEICONTROL RD may be applied both in the exhaust process, cold pad batch process and in the fully fashion field. BEICONTROL RD guarantees an optimal pH control throughout the complete dyeing process. The product is applied instead of the usual alkali (sodium carbonate and caustic soda lye). Moreover, BEICONTROL RD has a dispersing and sequestering effect towards alkaline earth and dyes.

Thus, the following advantages result:

- improvement of the reproducibility through a more precise pH control
- reduced risk of stain formation since the absorption and fixation of the dye are more even
- reduced dyeing time compared with classic processes due to the reduced dosage time
- low dye hydrolysis through pH control
- easy handling and use of the product compared with powdery alkalis, which guarantees a higher operation safety
- the buffer effect corresponds with a combination of soda ash and lye

- good tone-in-tone dyeings on CO/CV blends
- ideal for machines where a dosage cannot be effected

Application Technique

Diluting Instructions

BEICONTROL RD can be diluted with cold or warm water at any ratio.

Application Fields

BEICONTROL RD is diluted with cold water and dosed to the dyebath or added in portions after the addition of the dye and the salt. Thus, the complicated handling with powdery alkalis such as diluting of soda ash and the alkali addition which cannot be exactly controlled, can be omitted.

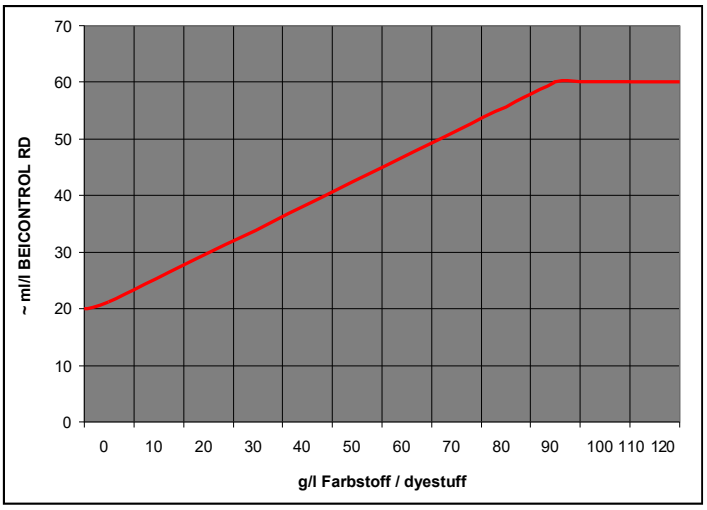
BEICONTROL RD can be applied in nearly all processes recommended by dye manufacturers (except for C.I.Reactive blue 19).

Recommendation for Use

Exhaust process:

% dye	0.5 – 3.0	3.0 – 7.0
~ ml/l BEICONTROL RD	2.0 – 4.0	5.0 – 6.0

Continuous process:



The recommended application amounts in the table and graph are without guarantee since they may vary depending on the trichromaticity and dye selection and may have to be adjusted.
We recommend pretrials.

The application amount of BEICONTROL RD depends on the reaction capacity of the dye in use, the desired shade, the liquor ratio and the water quality of the process.

In order to ensure a reproducible and optimal colour yield it is basically necessary to control the required pH value. The initial pH value ought to be 7 and can be influenced by the water in use (such as inherent pH value, bicarbonate content) and the fabric. When the fixing temperature has been reached and at the end of the fixation process, the pH value ought to be controlled again.

The final pH value range ought to be 10.6 – 11.5. The final pH value depends on the colour depth and dye class. Detailed information can be taken from the corresponding colour charts.

Please observe the following

BEICONTROL RD may cause severe causticizations.

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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