

GGLEVEL C-TR

Mixture of polymers for levelling agent of cotton processes

PROPERTIES :

- Improves process safety and reproducibility of dyeings on natural and regenerated cellulosic fibres and their blends with other fibres
- Suitable for all reactive dyestuffs and textile processing conditions, independent of the type of machine or apparatus
- Combination of levelling, buffering, crease preventing, penetration, wetting/ deaerating, sequestering and dispersing components
- Does not influence significantly shade and dye yield
- Has buffering capacity
- Reduces the amount of required lubricants by at least 50%
- Reduces reproduction and precipitation problems during reactive dyeing.
- Dispersing and solubilisation effect to sensitive reactive dyes (e.g. Phthalocyanine)
- Mask non-ionic surfactants
- Reduce speed of dye-fixation by buffering action
- Eliminates bi-carbonate and residual alkali from pre-treatment
- Sequestering of water-hardening substances and heavy metal ions
- Crease preventing
- Non-foaming
- Cold water soluble

APPLICATION :

Test 1

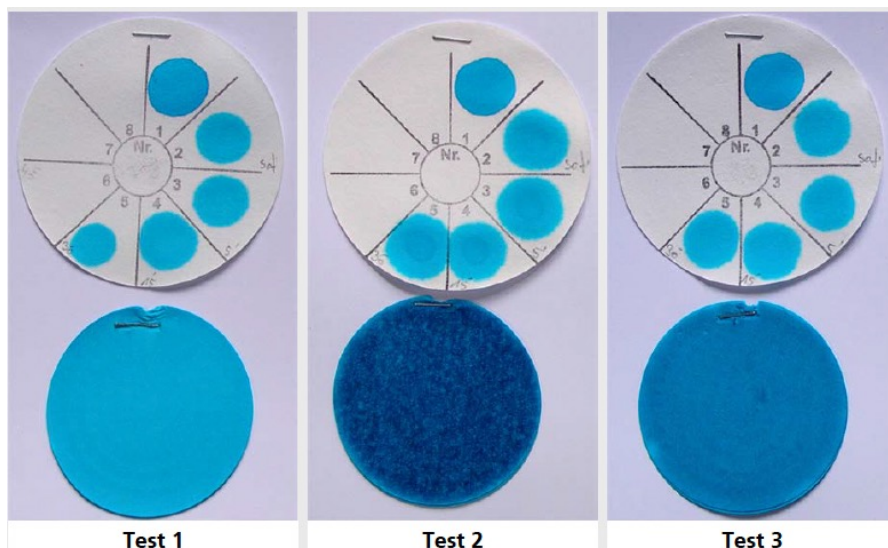
Dye solution of C.I. Reactive Blue 021 in soft water. The dye itself shows a good neutral solubility (drop test 1). Addition of glauher salt and soda ash (2) do not show a negative Effect to the solubility. The following drop tests (3 - 5) are done 5, 15 and 30 minutes after addition of salt and soda ash. No precipitations are visible

Test 2

Dye solution of C.I. Reactive Blue 021 in soft water + nonionic surfactant. On drop test 2 - 5 an in creasing problem of precipitation is visible, caused by a nonionc surfactant carried over from pretreatment. Without masking the nonionic substances a faulty dyeing is possible.

Test 3

Dye solution of C.I. Reactive Blue 021 in soft water + nonionic surfactant + 2.0 g/l GGLEVEL C-TR. The addition of GGLEVEL C-TR leads to a masking of the harmful nonionic surfactants. The result is a dye liquor free of precipitations and a minimised risk of re-production.



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APPLICATION :

GGLEVEL C-TR is a special non-foaming compound product to improve process safety and reproducibility and thus the so-called "Right-First-Time Rate" of discontinuous reactive dyeings of natural and regenerated cellulosic fibres and their blends with other fibres.

The product is suited for all reactive dyestuffs and textile processing conditions, independent of the type of machine or apparatus.

GGLEVEL C-TR is especially characterized by its harmonious combination of levelling, buffering, crease preventing, penetration supporting, wetting/deaerating, sequestering and dispersing components.

The dispersing and dye solubilizing action is advantageous especially when dyestuffs of large molecular size are applied, namely blue, green and turquoise types on the basis of phthalocyanine.

The sequestering and protective colloid action reduces reproduction and precipitation problems during reactive dyeing which are due to a bad/unsteady water quality and to an insufficient pretreatment of natural CEL fibres and CEL/elastane blends.

This component which removes and sequesters the natural fibre-adjacent substances which hardly are soluble or even insoluble, is of special importance when grey material of natural cellulosic fibres is dyed.

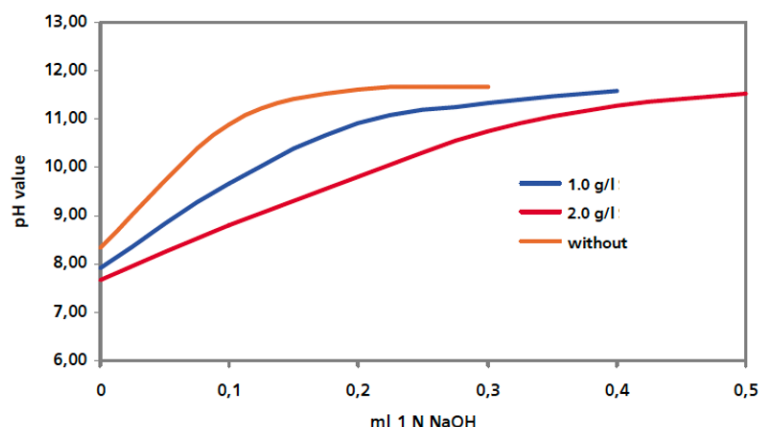
The levelling action is especially due to a controlled reaction and an even fixation rate of the dyestuff all over the fabric during the reactant phase, i.e. during and after alkali dosing. Dye yield and shade are not significantly influenced.

The buffering action prevents a too high or too low initial pH value caused by a too weak or too strong acidification after pretreatment.

Bicarbonations are sequestered which have been carried in by water (including refined water) and which have a negative effect on the fixation yield.

All these effects contribute to the reproducibility of the dyeings.

Due to the portion of lubricants and crease preventing components the usual amount of crease preventing agents can be reduced by at least 50%. In cheese dyeing these portions improve the dye penetration, especially at thread crossings, which is of special importance for CV filament or linen yarn.



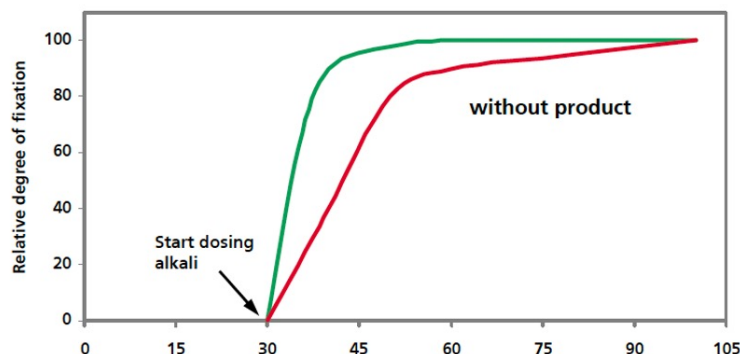
The buffering effect of GGLEVEL C-TR can either be used to smooth up the fixation of reactive dyes in cases of critical situations, or - in case of an existing, stable process - to shorten the alkali dosing phase

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APPLICATION :



The wetting/deaerating action takes effect immediately after the product is added (rapid wetter), which increases the process safety. This applies even to fabrics which have been sufficiently pretreated.

When dyeing untreated material, hydrophobic natural and artificial greases, waxes and oils are overcome and subsequently removed due to the emulsifying properties of the product.

GGLEVEL C-TR can also be applied in higher concentrations as multifunctional product for the dyeing of untreated natural cellulosic fibres. However in this field the special product GGLEVEL C-TR should be preferably applied, since it has been especially developed to meet the requirements of grey material dyeing.

Depending on the levelling problems to be expected due to water and fabric quality, we recommend the application of

0.5-1.0 g/l GGLEVEL C-TR

This amount should not be increased unless the circumstances are extremely unfavourable. Thus we recommend 3.0 g/l in very delicate cases and 4.0 - 5.0 g/l when dyeing untreated natural cellulosic fibres.

When dyeing untreated natural CEL fibres, the amount of fixation alkali should be increased by 25%.

For articles which are sensitive to creasing (e.g. articles made of regenerated cellulosic fibres, heavy-weight cotton fabrics or CEL/EL blends) we recommend to apply additionally a separate crease preventing agent. Its dose can be reduced by 50% of that of the standard recipe.

Because of these use of GGLEVEL C-TR in special situations, lab trials are strongly recommended.

Storage :

The product sensitive to frost and heat and must not be stored at temperature below 0°C or above 40°C . Irreparable damage is possible. In case of suspected frost or heat damage , the usability of the product has to be checked before processing.

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 marking regulations and protective measures can be taken from the respective safety data sheet.

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