

TECHNICAL INFORMATION

SEGALEVEL E4R-R

Levelling agent for reactive dyeing of cellulosic fibers

Powerful levelling agent that used in dyeing of cellulosic fibers with reactive dyes.

- Controls the migration and fixation of reactive dyes during the reactive dyeing process.
- Due to its buffering effect on dye bath pH, Segalevel E4R Liq. provides better dye fixation during alkaline addition.
- Prevents the dye stains caused by soda ash.
- Improve the solubility of dye and prevents dye stains caused slightly soluble dyes.
- Due to its sequestering effect on water hardness forming salts in dye bath, helps to improve repeatability of dyeing(etc. Blue 19 and Blue 21).

PROPERTIES

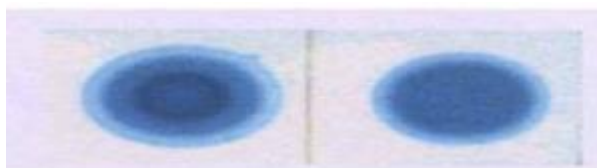
Component	Aromatic polyether sulfonate	
Appearance	Brownish liquid	
Ionic character	Anionic	
pH	7.0-9.0	
Compatibility	Anionic	good
	Nonionic	good
	Cationic	It may cause precipitation
Solubility	Miscible with cold and hot water in any proportion.	
Stability	Degradable with oxidizing	
Foaming performance	moderate	
Durability	Anionic and nonionic	good
	Cationic	possible precipitation

Mode of action

- Effective use of **Segalevel E4R-R** in any reactive dyeing process simplifies the dyeing process and shorten dyeing time.
- According to dispersion effect, **Segalevel E4R-R** controls the regular adsorption of reactive dyes and increase the migration power of these dyes.
- Total amount of electrolyte may be added to dyeing liquor in a safe way. The process is simplified.

Chormotografic test

Diffusion effect

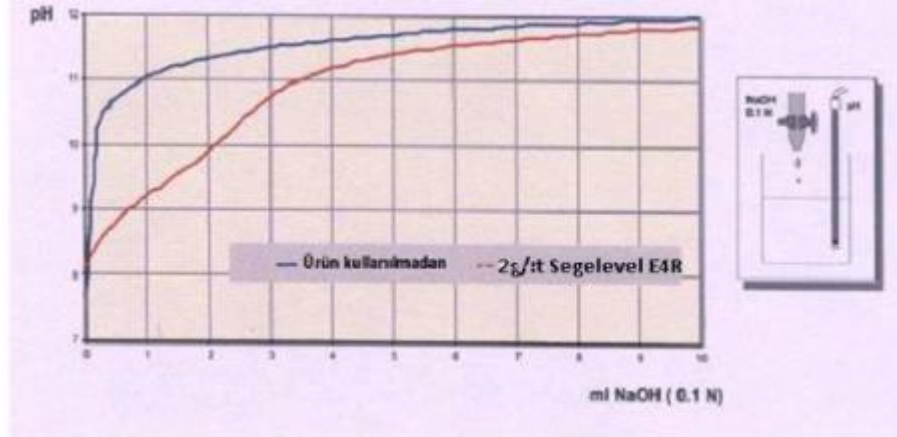


Without any product 2g/L Segalevel E4R-R

Presence of **Segalevel E4R-R** in dyeing bath allows the gradual and controlled change in pH during the addition of alkali. Regular fixation of dye is thus obtained which guarantees dyeing levelness.

Neutralization curve

Effect on pH



As action on temporary hardness of the dyeing bath; addition of 2g/l **Segalevel E4R-R** in to the dyeing bath neutralizes an hardness of 18° f // 10° g // 14° e

Application

Segalevel E4R liq(R) is dissolved in cold or warm water easily and without any problem. The solution obtained can be added directly to the dye liquor. The application amount is independent from dye concentration.

We recommended the addition of 1.5–4 g/L **Segalevel E4R-R**

Increasing the application amount from 1.5 to 4 g/L **Segalevel E4R-R** is justified in case of difficult dyeing conditions such as:

- Substrates which are difficult to dye level
- Liquor ratio lower than 1:10
- Insufficient precise alkali metering

Precautions

Storage:The storage life in original package at 0–40 °C is 12 months.

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