TECHNICAL INFORMATION

SEGACEL ML

Detergent effective reducing agent

- It replaces hydrosulfite and conventional detergents in reductive washing of dyes and dyeings made with disperse dyes on polyester fibers.
- It prevents repainting and restaining the fabric due to its very strong dispersion
- Increases fastness due to high washing performance.
- Low foaming potential. Therefore, it can be used in all dyeing and washing machines.
- No color effect
- Easily biodegradable

PROPERTIES

Chemical Structure	Sulfonic acid derivative
Appearance	Transparent light cloudy liquid
İyonik Character	Anionic
pH	9.5-11.5
Solubility	It can be diluted with cold water at any ratio (Hot water not recommended).
Stability of the solutions	Hard water: good Electrolytes: good in standard concentrations in washing baths Acids : good Alkallines : good at recommended concentrations
Compatibility	Anionic and nonionic products : good

APPLICATION

Reducing / dispersing effect

- Segacel ML has a reducing effect above70° in basic environment.
- The redox potential occurs in the presence of caustic soda would be enough to break several disperse dyes.
- Since Segacel ML has a high dispersing power at any temperature, disperse dyes attached to the non-fixed fiber surface are disintegrated and the degradation products are spread to the wash liquor.

Application Area

Segacel ML suitable for:

- ✓ Reductive washing of printing and dyeing on PES fibers with continuous and impregnation process
- ✓ Cleaning of painting machines

Reductive washing of PES paints

Extraction method

- Rinse the paint thoroughly
- add the below products after arrange the cleaner bath to 50°C:
  1-3 g/L Segacel ML
  % 0.5 -1 solid caustic or soda*
- Heat to 70-80 ° C and treat for 15-20 minutes at 70-80 ° C and cool to 50 ° C.
- Rinse once at 40-50 ° C.
- Rinse cold and neutralize with acetic acid if necessary.

* The usage with other alkalis is not recommended due to less effectiveness

Continue Method

- Rinse cold
- Rinse warmly (70-80°C)
- 80°C
  2-6 g/L Segacel ML and
  Treat with solid caustic % 1-2
  - Rinse and neutralize if necessary

Strengrhening (ranforse):

Strengthen with 1/3 of the Segacel ML and 1/6 of the alkali amount every 20 minutes.

Reduction of printing on PES

- Rinse cold
- 1st bath: 20-30°C
  1 g/l Seganal DFT Liq.
- 2nd: 40-50°C
  2 g/L Seganal DFT Liq.
- 3rd: 70-80°C
  2-6 g/L Segacel ML and
  1-3 g/L solid caustic
- rinse baths**: Rinse at low temperatures from 80 ° C to cold.
- final bath: rinse cold with acetic acid if necessary.

** It is recommended to use soft water with alginates or synthetic thickeners in the first two rinse baths

- **Continuous method for disperse / reactive dyes**

These dyes can be cleaned in the same way but without the need for soaping.
Add 1-2 g / Lsodium tripolyphosphate to the cleaning liquor.

Paint selection for cellulosic fiber component

* All vat dyes and major naphthol dyes are suitable
* Reduced reactive dyes are not suitable due to possible tone changes. Therefore, it is recommended to test before applying to reactive dyed products.

Reactive discolouring process

10-15g/L Segacel ML
1g/L Segeprep JW liq
pH is set to 4.5

- Heat to 85 ° C and treat for 45 minutes at 85° C and cool to 50 ° C.
- Rinse once at 40-50 ° C.

Cleaning Machines

- Fill the machine with water and add the below materials

3 – 4 g/L Segacel ML
1.5 – 2 g/L solid caustic
- Heat to 80 – 90 ° C and treat for 20–30 minutes.
- Rinse thoroughly

- It is recommended to add a cloth end or waste material to increase the cleaning effect on jets and overflow machines.

PRECAUTIONS

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