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Fixapret[®] Resin F-ECO Plus

Crosslinker agent for chlorine-fast, extremely lowformaldehyde, easy-care finishing of textiles composed of cellulosic fibres and their blends with synthetic fibres.

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| Nature | Modified dimethyloldihydroxyethylene urea. |
| Physical form | Clear, aqueous solution. |
| Shelf life | When stored correctly in sealed, original containers at temperatures between 5°C and 30°C, Fixapret [®] Resin F-ECO Plus has a shelf life of at least 12 months. Once a container has been opened to remove part of the contents, the container must be tightly closed again and the remaining contents must be used up within a short time. |

Properties

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| Density | Approx. 1.3 g/cm ³ at 20°C |
| pH | Approx. 4.0-5.5 |
| Reactivity | Very good |
| Solubility | The product can be diluted with cold water in all proportions. |
| Compatibility | Fixapret [®] Resin F-ECO Plus is compatible with most finishing agents. If several products are to be mixed with one another, preliminary tests should be carried out to test the compatibility, particularly if antislip agents or water-repellents are to be used. |

Application

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| Fields of application and finishing effects | <p>Easy-care finishing of woven and knitted fabrics composed of application and cellulosic fibres, viscose, alone and in blends with synthetic fibres.</p> <ul style="list-style-type: none">• Very low formaldehyde values, in particular according to LAW112 and AATCC 112 (en ISO 14 184, Parts 1 and 2) tests.• Good stability to chlorine of finishes measured by AATCC 92 test when Fixapret[®] Catalyst F-M is used as a catalyst.• Suitable for embossed, schreiner and chintz finishes.• Very good easy-care effects that are fast to washing at the boil and dry cleaning.• Soft handle.• Very good stability to hydrolysis. |
| Application conditions | Fixapret [®] Resin F-ECO Plus is applied by padding at room temperature. The liquor pick-up is 60-90%, depending on the type of goods. |
| Amounts used | CO: 40-110 g/l Fixapret [®] Resin F-ECO Plus CV: 70-155 g/l Fixapret [®] Resin F-ECO Plus PES/CO: 30-85 g/l Fixapret [®] Resin F-ECO Plus PES/CV: 55-110 g/l Fixapret [®] Resin F-ECO Plus |

Fixapret® Catalyst F-M is particularly suitable for this application in the traditional crosslinking process.

Catalysts

Amounts used:

25% of Fixapret® catalyst F-M, calculated on the amount of crosslinker, but at least 13g/l. A concentration of over 50g/l should not be used.

Guideline recipes**Shirting fabric (cotton)**

55-85 g/l Fixapret® Resin F-ECO Plus

14-21 g/l Fixapret® Catalyst F-M

10-20 g/l Perapret® Additive F-PEB

10-30 g/l Siligen® Softener SIS Nano

Liquor pick-up approx.70%

Dry as usual

Cure approx.3 min at 150°C.

Blouse material (woven viscose)

70-125 g/l Fixapret® Resin F-ECO Plus

16-30 g/l Fixapret® Catalyst F-M

10 g/l Fixapret® Catalyst FB

20-30 g/L Siligen® Softener SWK

15-30 g/L Siligen® Softener SIE

Liquor pick-up approx.80%

Dry as usual

Cure approx.1 min at 170-175°C.

knit goods (cotton)

40-70 g/l Fixapret® Resin F-ECO Plus

13-17 g/l Fixapret® Catalyst F-M

20-30 g/l Perapret® Additive F-PEB

10-20 g/l Siligen® Softener SIS Nano

Liquor pick-up approx.90%

Dry as usual

Cure approx. 30s at 170°C.

Work wear (cotton)

55-110 g/L Fixapret® Resin F-ECO Plus

14-27 g/l Fixapret® Catalyst F-M

10 g/l Perapret® Stiffener VA New

20-40 g/l Perapret® Additive F-PEB

5-20 g/l Siligen® Softener SIE

Liquor pick-up approx.70%

Dry as usual

Cure 3 min at 150 °C

Notes

The pH of the prepared finishing liquor should lie between 4.0 and 5.5.

With all recipes, it is recommended to add 1 g/l prediluted Kieralon® Wash XC-J conc. and 0.5 cc/l of acetic acid 60%.

Safety

When using this product, the information and advice given in our **Safety Data Sheet** should be observed. Due attention should also be given to the **precautions** necessary for handling chemicals.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. Responsibility for compliance with the requirements of the downstream textile market rests with the textile processor.

Date: June 2011

