

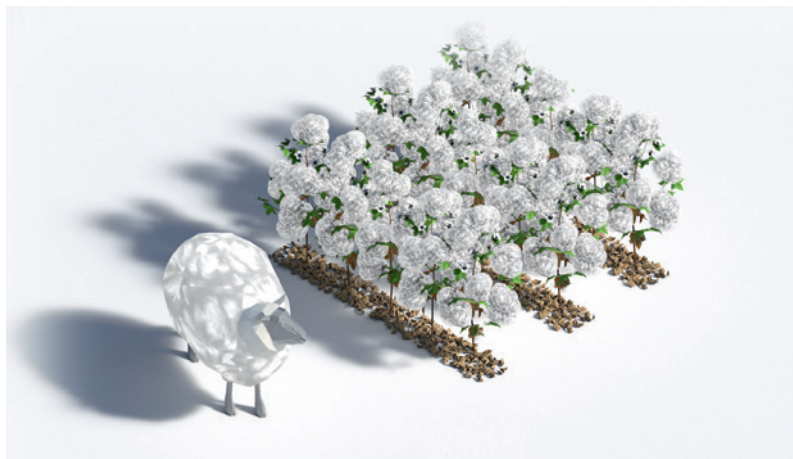
TEGOTEX®

Repellent Treatment-Range



TEGOTEX® RT 2033

TEGOTEX® RT 2033 is a polyamide modified siloxane with an active content of 33 % in water, which is especially beneficial on cotton-based and cotton-blend products.

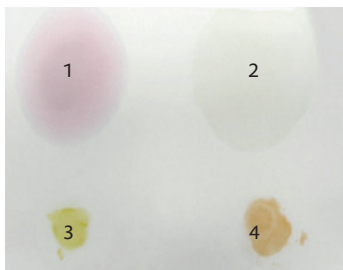


Woven cotton treated with 144 g/l TEGOTEX® RT 2033

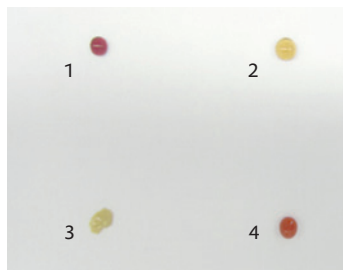


10* HOME LAUNDRY CYCLES AT 40 °C

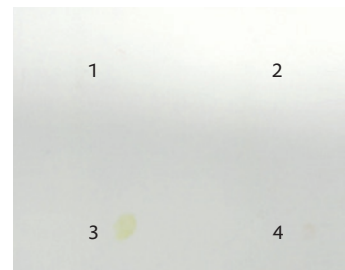
The picture above shows a water droplet after ten washes at 40 °C with TEGOTEX® RT 2033 applied on woven cotton with 144 g/l by padding. Even after ten washing cycles, water repellency was maintained on the cotton fiber.



UNTREATED COTTON, WIPED OFF



COTTON TREATED WITH
TEGOTEX® RT 2033, APPLIED

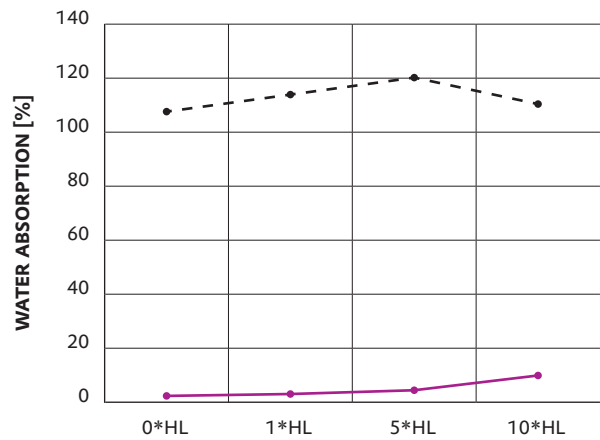
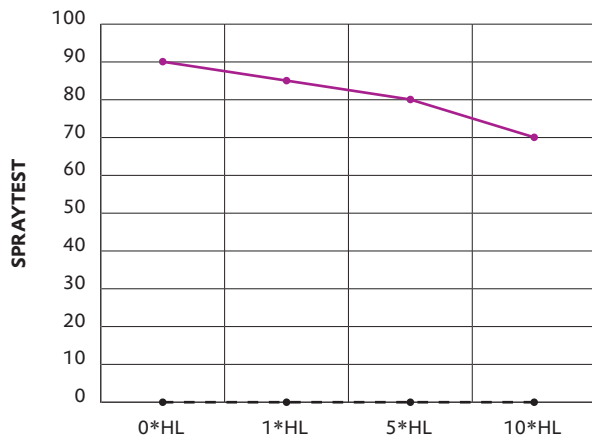


COTTON TREATED WITH
TEGOTEX® RT 2033, WIPED OFF

1 Red Wine 2 Cola 3 Mustard 4 Ketchup

TEGOTEX® RT 2033 generates an excellent easy-cleaning effect, especially with the removal of everyday dirt. Red wine and cola spills are easily removable with a wet tissue. Tougher stains like Ketchup and mustard can be removed easily by using a cleaning liquid treated tissue. The pictures above show treated cotton, where dirt was applied and wiped off with a wet tissue after 10 minutes in comparison to the untreated fabric.

Performance of TEGOTEX® RT 2033 on woven cotton applied by padding 144 g/l, baking: 180 °C/0.5 min



-- Untreated fabric — TEGOTEX® RT 2033 HL = Home Laundry cycles

These diagrams show the performance of TEGOTEX® RT 2033 on woven cotton, applied by padding 144 g/l in comparison to untreated cotton. On the left-hand side, the Spraytest score is shown as a function of home laundries at 40 °C. On the right-hand side, the absorption of water is also shown as a function of home laundry cycles at 40 °C. Due to the treatment of the fabric with TEGOTEX® RT 2033, water absorption is lower than 3 %, and even after 10 washes it is lower than 10 %.



TEGOTEX® RT 2040

TEGOTEX® RT 2040 is a polyamide modified siloxane with an active content of 40 % in water, with excellent performance on synthetic fabrics, like polyester.



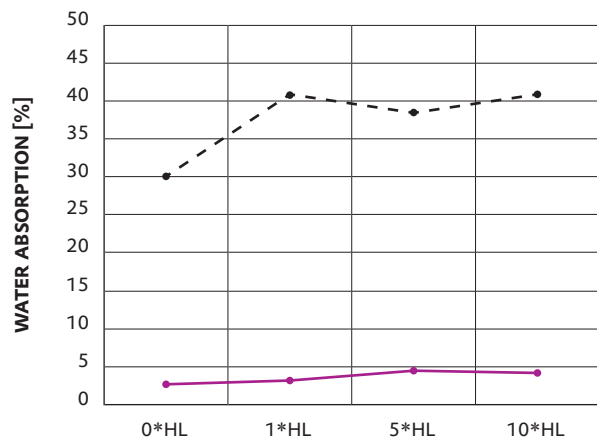
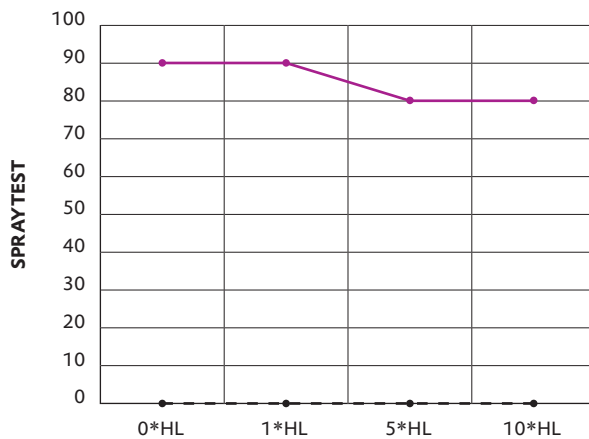
Woven polyester treated with 72 g/l TEGOTEX® RT 2040



10* HOME LAUNDRY CYCLES AT 40 °C

The picture above shows a water droplet after ten washes at 40 °C with TEGOTEX® RT 2040 applied on polyester with 72 g/l by padding. Even after ten washing cycles, water repellency was maintained on the cotton fiber.

Performance of TEGOTEX® RT 2040 on polyester applied by padding 72 g/l, baking: 180 °C/ 0.5 min



-- Untreated fabric — TEGOTEX® RT 2040 HL = Home Laundry cycles

These diagrams show the performance of TEGOTEX® RT 2040 on polyester, applied by padding 72 g/l in comparison to untreated polyester. On the left-hand side, the Spraytest score is shown as a function of home laundries at 40 °C. Even after 10 home laundry cycles, the durability stays at a high level. On the right-hand side, the absorption of water is also shown as a function of home laundry cycles at 40 °C. Due to the treatment of the fabric with TEGOTEX® RT 2040, water absorption is lower than 3 %, and even after 10 washes it is lower than 5 %.

TEGOTEX® RT 2033 AND TEGOTEX® RT 2040

TEGOTEX® RT 2033 and 2044 are fluorocarbon free and deliver outstanding water repellency performance. They do not contain any flammable liquids and improve the soil and water repellency of many different kinds of fabrics. For synthetic fibers, they also give an extraordinary handfeel to the

fabric and show an excellent spray rating with minimal pick up of water and good durability for household washing machines. Both TEGOTEX® products are easily dispersible in water and do not contain SVHCs above the threshold limit of 0.1 %.

Recommendation

PRODUCT	COMPOSITION	ACTIVE MATTER [%]	RECOMMENDED TEMPERATURE	RECOMMENDED FABRICS AND DOSAGE [g/l]					WASHING DURABILITY	HANDFEEL
				COTTON	POLYESTER/ COTTON	POLYESTER	POLYAMIDE	POLYACRYLNITRIL		
TEGOTEX® RT 2033	Polyamide modified siloxane	33	Drying: 105 °C/2 min Baking: 160–180 °C/ 0.5–2 min	50–150	70–150	25–100			***	***
TEGOTEX® RT 2040		40				50–100	15–75	25–100	**	***

Recommendation for defined fabrics

FABRIC				RECOMMENDATION					
DESCRIPTION	AREA WEIGHT [g/m ²]	WEAVE	THICKNESS [μ]	PRODUCT	DOSAGE [g/l]	DRYING TEMPERATURE [°C]	DRYING TIME [min]	BAKING TEMPERATURE [°C]	BAKING TIME [min]
100 % Cotton	205	Twill 3/1	631	TEGOTEX® RT 2033	144				
100 % Cotton	160	RRG	1002	TEGOTEX® RT 2033	144				
65 % Polyester/35 % Cotton	170	Plain 1/1	424	TEGOTEX® RT 2033	72				
65 % Polyester/35 % Cotton	170	Plain 1/1	424	TEGOTEX® RT 2040	72	105	2	180	1
100 % PA 6.6	35	Ripp-Stop	88	TEGOTEX® RT 2040	30				
100 % Polyester	95	Twill 3/1	181	TEGOTEX® RT 2040	72				

Europe | Middle East | Africa

Evonik Operations GmbH
Goldschmidtstraße 100
45127 Essen
Germany
Phone +49 201 173-2665
Fax +49 201 173-1990
www.evonik.com

Asia | Pacific

Evonik Specialty Chemicals Co., Ltd.
55, Chundong Road
Xinzhuang Industry Park
Shanghai, 201108
PR China
Phone +86 21 6119-1125
Fax +86 21 6119-1406

The Americas

Evonik Corporation
P.O. Box 34628
Richmond, VA 23234
USA
Phone +1 804 727-0700
Fax +1 804 727-0855

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.



www.evonik.com/textile-auxiliaries

07-2020