



smart chemicals srl

# LIST OF PRODUCTS

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## PRODUCT LINE FOR TEXTIL INDUSTRY

<b>PRE-TREATMENT</b>	Desizing Agents	Range SMARTZYM
	Enzymes formulation	Range ENZISMART
	Wetting/Detergent Agents	Range SMARTDET/SMARTWET
	Sequestering Agents	Range SMARTQUEST/SMARTPOL
	Deareating Agents	Range SMARTAIR/SMARTFOAM
	Anticrease Agents	Range SMARTLUBE
	Stabilizer Agents	Range SMARTSTAB/SMARTBLEACH
<b>DYEING</b>	Dispersing Agents	Range DISPERDENTE LIQ./POLVERE
	Levelling Agents	Range SMARTLEVEL/SMARTEGAL
	Fixing Agents	Range SMARTFIX
	Other Auxiliaries	
<b>FINISHING</b>	Softeners	Range SMARTSOFT
	Elastomers	Range SMARTELAST
	Antistatics/Antistramants	Range SMARTSTAT/SMARTGRIP
	Resin for finishing	Range SMARTBIND/SMARTRET
	Water-oil repellents-stain release	Range SMARTGARD
<b>TECHNICAL &amp; SPECIAL</b>	Flame Retardants	Range SMARTFLAM
	Specialities – Compound ready to use	Range SMARTPU/SMARTFINISH/SMARTFOAMER
	Thickeners	Range SMARTHICK



## Cap.1 PRE-TREATMENT

### **Desizing Agents**

#### 1.1

Products	Ionic type	pH	Product	Function	Application
<b>SMARTZYM C</b>	-	5,5 – 6,5	Pale brown liquid	Enzymatic Desizing agent	<i>Alpha amylase</i> desizing agents usefull from room temperature to 80°C
<b>SMARTZYM XC</b>	-	5,5 - 6,5	Brown liquid	Enzymatic Desizing agent <b>High concentration</b>	<i>Alpha amylase</i> desizing agents usefull from room temperature to 80°C
<b>SMARTZYM BCM</b>	-	5,5 - 6,5	Brown liquid	Enzymatic Desizing agent	Balanced desizing agent effective for starch-CMC based sized fabrics
<b>SMARTZYM HT</b>	-	6-7	Brown liquid	Enzymatic Desizing agent	<i>Alpha amylase</i> desizing agents usefull for pad-steam process. High temperature resistant .



## Enzymes Formulation

### 1.2

Products	Ionic type	pH	Physical form	Function	Application
<b>ENZISMART PES</b>	-	6,5 – 7,5	Brown liquid	<b><u>BIOSCOURING</u></b>	Enzymatic based formulation usefull on cellulosic fibers instead of traditional with NaOH process

Products	Ionic type	pH	Physical form	Function	Application
<b>ENZISMART CTL</b>	-	6 -7	Greenish liquid	<b><u>BIO- PEROXIDE KILLER</u></b>	Enzymatic catalase based formulation usefull as killer agent to remove hydrogen preroxide residual after bleaching.

Products	Ionic type	pH	Physical form	Function	Application
<b>ENZISMART CXL</b>	-	6 -7	Brown liquid	<b><u>BIO- POLISHING</u></b>	Concentrated cellulase based formulation for cotton and blends
<b>ENZISMART GS</b>	-	4,5 - 5,5	Pale brown Liquid	<b><u>BIO- POLISHING</u></b>	Ready to use cellulase based formulation for cotton and cellulosic fibers



## Wetting/Detergent Agents

### 1.3

Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTDET B10P</b>	N/A	5,5-7	Colourless viscous liquid	Scouring wetting agent	Low foaming wetting agent for continuous and discontinuous process
<b>SMARTDET B100</b>	N/A	5,5-7	Colourless viscous liquid	Scouring wetting agent	Detergent agent for preparation of cotton, wool and synthetic fibers
<b>SMARTDET BOS</b>	N/A	5,5-6,5	Colourless viscous liquid	Scouring wetting agent	Strong alkali resistant detergent wetting agent for cotton
<b>SMARTDET DSU</b>	N/A	5,5-6,5	Colourless viscous liquid	Scouring wetting agent	Combination of special surfactants. Washing, emulsifying and cleaning agent for all kind of fibers
<b>SMARTDET JET</b>	N	5-7	Colourless viscous liquid	Scouring wetting agent	Low-foaming washing and wetting agent
<b>SMARTDET NF</b>	N	7-8	Colourless viscous liquid	Scouring wetting agent	Low-foaming stain remover and washing agent
<b>SMARTDET K</b>	A	3-4	Yellowish liquid	Scouring wetting agent	Special pretreatment product on rako-Jet procedure
<b>SMARTDET B6P</b>	N/A	5,5 - 7	Colourless liquid	Scouring wetting agent	Detergent agent for preparation of cotton and blends
<b>SMARTDET ECO MR</b>	A	4	Colourless liquid	Scouring wetting agent	Low-foaming, strong wetting agent with detergent power
<b>SMARTDET 200</b>	N/A	7	Clear liquid	Scouring wetting agent	Wetting detergent agent with biodegradable solvent
<b>SMARTDET SB</b>	N	7	Clear liquid	Scouring wetting agent	Wetting detergent agent specific for jet overflowed and apparatus to strong turbulence

<b>SMARTDET ST</b>	N/A	5	Clear liquid	Scouring wetting agent	Wetting detergent sequestering and suspending
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Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTWET DOS</b>	A	5,5-7	Colourless liquid	Wetting agent	Rapid wetting agent
<b>SMARTWET ZBT</b>	N	7	Colourless liquid	Wetting agent	Wetting agent for wool process
<b>SMARTWET SA</b>	A	7	Colourless liquid	Wetting agent	Low-foaming rapid wetting agent. High wetting effect in hot and cold liquors. The product can be easily used for reactive, vat and direct dyeings
<b>SMARTWET MCE NEW</b>	N	7	Colourless liquid	Wetting agent	Wetting, deaeration and foam suppressant
<b>SMARTWET FC</b>	ANF/C	5.5-6.5	Colourless liquid up to yellow	Wetting agent	Biodegradable no re-wetting for idro-oil repellent finishing
<b>SMARTWET CL</b>	N	7	Colourless liquid	Wetting agent	Wetting agent for knitted
<b>SMARTSERVE H</b>	C	7	Clear liquid	Reserving/washing	Reserving agent in the press articles with acid



## Sequestering Agents

### 1.4

Product	Ionic Type	Ph	Physical form	Function	Application
<b>SMARTQUEST AD</b>	A	7-8	Amber viscous liquid	Sequestering, dispersing agent	Sequestering agent specific for Ca and Mg ions, suitable for preparation and dyeing. Good dispersing properties
<b>SMARTQUEST MC</b>	N	10	Pale yellowish liquid	Sequestering dispersing agent	Sequestering agent with good resistance in strong alkaline condition (mercerizing)
<b>SMARTQUEST FE</b>	N	7	Yellowish liquid	Sequestering	Sequestering agent specific for Fe and Cu suitable for Bleaching
<b>SMARTQUEST EMG</b>	A	1-2	Liquid yellowish	Sequestering agent	Acid sequestering agent with a high Ph buffering property which is used in acid demineralization and in acid dyeing baths.
<b>SMARTQUEST ESW</b>	A	3-4,5	Liquid brownish	Sequestering agent	Sequestering agent suitable for preparation. Good dispersing properties and has a stabilizing effect on peroxide
<b>SMARTQUEST NE</b>	A	7-8	Liquid brown	Sequestering agent biodegradable	Polyacrilate co-polymer with saccharides. Sequestering and dispersing agent for dyeing and pretreatment

					stabilizer for the hydrogen peroxide bleach
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Product	Ionic Type	Ph	Physical form	Function	Application
<b>SMARTQUEST TGA</b>	A	10	Liquid yellowish	Sequestering agent	Special sequestering agent for alkaline pre-treatment. It cannot be used in liquors containing oxidizing agents
<b>SMARTQUEST BCT</b>	N	9 - 10	Liquid yellowish	Sequestering agent	Synergic mix of scouring and sequestering agent
<b>SMARTPOL T</b>	A	7,5	Clear liquid	Dispersing sequestering agent	Sequestering -dispersing and suspending free nitrogen and phosphorus.
<b>SMARTQUEST S</b>	A	7,5	Clear liquid	Dispersing sequestering agent	Dispersing - sequestering - protective colloid agent
<b>SMARTQUEST SOIE</b>	A	10,2	Straw liquid	Sequestering specific	Sequestering for the removal of heavy metal ions



## Deaerating Agents

1.5

Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTAIR SD</b>	N	4-5	Colourless clear liquid	Deaerating and wetting agent	Wetting deaerating and foam suppressant. The product is applied in many processes in textile finishing as deaeration, foam-free wetting agent, especially in pretreatment and bleach.
<b>SMARTAIR FFC</b>	A	7-8	viscous liquid	Wetting agent	Deaerating wetting agent
<b>SMARTAIR TO</b>	N/A	4-6	clear liquid	Wetting agent	Deaerating wetting agent
<b>SMARTAIR GR</b>	N	7	Gel	De-aerating wetting agent	Wetting deaerating for cellulosic fibers resistant to changes in pH
<b>SMARTFOAM J</b>	N	7	Fluid emulsion	Antifoam	Antifoam silicone active at high temperature and Ph changes
<b>SMARTFOAM 100</b>	N		Fluid emulsion	Antifoam	Antifoam silicone



## Anticrease Agents

1.6

Products	Ionic type	pH	Product	Function	Application
<b>SMARTLUBE CF</b>	N	6 – 8	Colourless viscous liquid	Anti-crack, anti-crease antifelting agent	Anticrease agent in preparation and dyeing of wool, silk, cellulosic and synthetic fibers
<b>SMARTLUBE CO</b>	N	7	White liquid	Anticrease agent	Anticrease, lubricating agent recommended in polyamide and polyester fibers dyeing
<b>SMARTLUBE B CONC</b>	A	6-8	Liquid yellowish	Anticrease agent	Emulsified fat compound. Concentrated gliding agent and crease preventing agent especially for cotton dyeing



## Stabilizer Agents

1.7

Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTSTAB W</b>	A	4 – 5	Yellowish liquid	Stabilizing agent	Peroxide stabiliser for wool acid bleaching
<b>SMARTSTAB PLUS</b>	N/A	7	Amber liquid	Bleaching agent	Single pack hydrogen peroxide bleaching auxiliary, Stabiliser, wetting and dispersing properties
<b>SMARTSTAB TB</b>	A	2-3	Liquid yellowish	Stabilizing agent	Peroxide stabilizer suitable for all continuous processes such as pad-steam, pad-roll, pad batch and under liquor systems with and without addition of silicate and long liquor procedures
<b>SMARTSTAB TIG</b>	A	4-5	Liquid yellowish	Stabilizing agent	Peroxide stabiliser for continuous and discontinuous process
<b>SMARTSTAB V</b>	A	-	Clear yellow liquid	Stabilizing agent	Stabilizer stable to alkali for peroxide bleaching

  

<b>SMARTBLEACH COT</b>	N/A	4,5	Clear yellow liquid	Unique product for bleaching	Unique product for bleaching with hydrogen peroxide effect wetting, detergent, sequestering and stabilizing H <sub>2</sub> O <sub>2</sub>
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## Cap.2

## DYEING

### *Dispersing Agents*

### 2.1

Product	Ionic Type	pH	Physical form	Function	Application
<b>DISPERDENTE LIQ.</b>	A	8 – 10	Brown liquid	Dispersing agent	Dispersing agent for polyester and acetate with disperse dyes. Stripping agent for cationic products from cationic fibers
<b>DISPERDENTE P</b>	N	7	Amber liquid	Stripping agent	Dispersing stripping agent for dyed and printed shades
<b>DISPERDENTE ADT</b>	A	7.5	Viscous liquid	Sequestering dispersing agent	Sequestering, dispersing agent
<b>DISPERDENTE BDS 50</b>	A	7	Colourless liquid	Sequestering dispersing agent	Sequestering and dispersing agent for preparation of syntetic fibers
<b>SMARTPOL T</b>	A	7,5	Clair liquid	Dispersing sequestering agent	Sequestering dispersing and suspending free nitrogen and phosphorus.



## Levelling Agents

## 2.2

Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTLEVEL TL</b>	ANF	7	Viscous amber liquid	Levelling agent	Levelling-dispersing agent for acid dyeing of wool and polyamide
<b>SMARTLEVEL CEL</b>	N		Viscous amber liquid	Levelling agent	Levelling agent for direct, reactive and vat dyeing
<b>SMARTLEVEL RED</b>	N	6-8	Amber viscous liquid	Levelling agent	Levelling-dispersing agent for use in high temperature dyeing of polyester. Low foaming
<b>SMARTLEVEL SBF</b>	N	6-7	Viscous amber liquid	Levelling agent	Levelling agent for direct, reactive and vat dyeing,softening effect
<b>SMARTLEVEL CAR</b>	A/N	6.5-8.5	Amber liquid	Carrier	Non-toxic carrier for disperse dyestuff used for polyester fibers and their mixtures
<b>SMARTEGAL PES</b>	A	7,5	Clear amber liquid	Dispersing levelling	Dispersing-levelling
<b>SMARTEGAL IW</b>	N		Clear liquid	Levelling agent	Levelling/ dispersing for direct and reactive dyes
<b>SMARTEGAL MO</b>	Deb. A		Clear liquid	Dispersing/ levelling	Acid buffer compound with dispersing , sequestering and antiriduction effect for dye polyester print
<b>SMARTEGAL PA</b>	ANF	6	Liquid	Levelling agent	Levelling for dyeing of wool and mixed

## Fixing Agents

## 2.3

Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTFIX RC</b>	C	6 – 8	Amber clear liquid	Fixing agent formaldehyde free	Fixing agent formaldehyde free to improve wet fastness on cellulosic fibers dyed or printed with direct or reactive dyes
<b>SMARTFIX EL</b>	C	4 – 5	Colourless clear liquid	Fixing agent	Traditional fixing agent to improve wet fastness on cellulosic fibers (direct or reactive dyes)
<b>SMARTFIX ZFD</b>	C	7 – 8	Yellowish clear liquid	Fixing agent formaldehyde free	Fixing agent formaldehyde free to improve wet fastness on cellulosic fibres
<b>SMARTFIX TRG</b>	C	6	Yellowish clear liquid	Fixing agent formaldehyde free	Fixing agent formaldehyde free to improve wet fastness with softening effect
<b>SMARTFIX PA</b>	A	8-9	Amber clear liquid	Fixing agent	Fixing agent to improve wet fastness on polyamide fibers(acid dyes)
<b>SMARTFIX EF</b>	C	7	Clair liquid	Fixing agent	Fixing agent formaldehyde free for direct and reactive dyes on cellulosic fibers
<b>SMARTFIX AR</b>	A	8,5-9,5	brown clear liquid	Fixing agent nylon	Fixing agent for acid dyes
<b>SMARTFIX C</b>	C	6	colorless clear liquid	Fixing	Fixing agent for directs and reactivities colorants

Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTRED RG</b>	A	6 – 8	Granular powder	Anti-reducing agent	Anti-reducing agent for reactive and disperse dyes
<b>SMARTRED RL Liquid</b>	-	6-8	Clear liquid	Anti-reducing agent	Anti-reducing agent for reactive dyes-dispers dyes
<b>SMARTRED FL</b>		4	White crystalline powder	Reducing high yield	Reducing agent for textiles
<b>SMARTACID VS</b>	N	4,5	Liquid yellowish brownish	Acid donor	Acid donor for dyeing polyamide and wool. The product is evenly and slowly saponified in an aqueous medium during the heating and boiling phase of the dyeing process
<b>SMARTACID ATS</b>	A	2.6	Light liquid	Donor	Liquid acid donor for dyeing of PES
<b>SMARTANTIMIGRANTE BA</b>	A	7	Viscous yellowish liquid	Antimigration agent	Dye migration inhibitor for pad thermosol processes
<b>SMARTCLEANER T</b>	I	5-6	Colourless liquid	detergent and solvent agent for dyestuffs	detergent and solvent for dyestuffs

Cap.3

**FINISHING**

**Softeners**

**3.1**

Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTSOFT XJS</b>	C/N	4 – 5	Low viscosity emulsion	Combined softener / lubricant	Combined lubricant, softener and brushing aid for cellulosic fibers and blends. Non yellowing properties. Non-foaming. Shear stable
<b>SMARTSOFT HHN</b>	C/N	5 – 6	White emulsion	Hydrophilic softener	Hydrophilic softener for cotton, especially for towels and sportswear
<b>SMARTSOFT L</b>	N	6 – 7	Clear liquid	Waxing agent	High molecular weight wax, recommended when gloss finish is required
<b>SMARTSOFT PNL</b>	N	6 – 7	White emulsion	Softener and lubricant	Stable if add in resins formulations imparting softness where improved strength and abrasion resistance
<b>SMARTSOFT CA/N</b>	C	6	White emulsion	Softener	It is recommended as the softener for chlorine/resin finished wool to overcome the harsher handle resulting from such processes
<b>SMARTSOFT KN</b> <b>SMARTSOFT CA FLAKES</b>	AF	7	White emulsion Ivory flakes	Softener	Multipurpose softener particularly suitable for cotton and animal fibers. Anphoteric
<b>SMARTSOFT PE</b>	N	7	Amber emulsion	Softener lubricant	Softener compound to improve sewability and abrasion resistance Exhaustion and Pad application



Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTSOFT FS</b>	C	4-5	Emulsion	Softener	Moderate cationic softener
<b>SMARTSOFT NI</b>  <b>LIQ. – FLAKES</b>	N	7-9	Emulsion Flakes	Softener	Softener for cellulosic and blended fibres
<b>SAMRTSOFT PFC</b>	-	8	White liquid	Softener	Special softener for Hydrorepellent finishing
<b>SMARTSOFT SK2</b>	C	4-5	White liquid	Softener	Special cationic softener with high lubricant power. Suitable for all fibers
<b>SMARTSOFT AL</b>  <b>SMARTSOFT AL FLAKES</b>	N	7	White liquid  Flakes	Softener	Multipurpose softener suitable for all fibers
<b>SMARTSOFT VO</b>	N/ANF	7-8	White liquid	Siliconic softener	Siliconic softener for Foulard application
<b>SMARTSOFT HF</b>	C	5	Fluid paste	Softener, lubricant	Softener, lubricant suitable for all fibers
<b>SMARTSOFT FLV/ FLV CONC</b>	C	5	Fluid emulsion	Softener	Cationic softener with effect soft and slippery



Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTSOFT N40</b>	N	9,5	Fluid emulsion	Polyethylene emulsion	Polyethylene emulsion to give the fabric abrasion resistance with lubricating effect
<b>SMARTSOFT DC</b>	Weakly C	5,5	Fluid emulsion	Softener	Softener for all fibers and their blends
<b>SMARTSOFT PJ</b>	N	9	Fluid emulsion	Softener in emulsion	Softener to confer tissue lubricating action and abrasion resistance
<b>SMARTSOFT PNV</b>	C	4-5	White thick liquid	Softener	Cationic softener with excellent lubricity suitable for all fibers
<b>SMARTSOFT KN</b>	ANF	-	flakes	Softener	Softener for cellulosic fibers and blends

## Elastomers

### 3.2

Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTELAST VST</b>	C	5 - 6	Milky white emulsion	Super softener	Super-softener for all types of woven and knitted fabrics
<b>SMARTELAST RNT</b>	N/C	5,5 - 6,5	Clear transparent liquid	Elastomeric softener	Amino-functional polysiloxane in the form of a microemulsion for permanent finishing effects on textiles of all types of fibers. Jet stable
<b>SMARTELAST CE</b>	N/C	5	Colourless transparent liquid	Microemulsion	Microemulsion for textile finishing
<b>SMARTELAST NMA</b>	N	4-7	White liquid	Macroemulsion	Macroemulsion for textile finishing
<b>SMARTELAST C22</b>	N	6	Clear liquid	Nanoemulsion silicone and hydrophilic	Nanoemulsion silicone hydrophilic non-yellowing and stable to changes in pH and temperature
<b>SMARTELAST 100</b>	N/ Weakly C	4-6	Transparent liquid	Microemulsion	Microemulsion silicone



### **Antistatics/Antistramants** **3.3**

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Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTSTAT FC</b>	A	5,5 - 7,5	Colourless liquid	Antistatic agent	Antistatic agent for most fibres but particularly recommended for idro-oil repellent finishing on synthetic fibers
<b>SMARTSTAT C</b>	C	6 - 7	Yellowish liquid	Antistatic agent	Antistatic for synthetic fibres and their blends
<b>SMARTGRIP CB</b>	C	4,5	Liquid	Antistramant agent	Antislipping- antistramant for natural fibers, artificial and synthetic
<b>SMARTSTAT PS</b>	N	7	Clair liquid	Antistatic agent	Antistatic for fibers, artificial and synthetic

## Resins for finishing

### 3.4

Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTBIND VSO</b>	A	4,5 - 5,5	Liquid milky	Binder	Acrylic dispersion with very soft handle Flexible also at low temperature Recommended for sport-wear, external garments and also base-coat Pad and coating application
<b>SMARTBIND ASM</b>	A	5-7	Liquid milky	Binder	Self-cross linker acrylic resin in high concentration
<b>SMARTBIND STQ</b>	A	3,5 - 4,5	Liquid milky	Binder	Acrylic dispersion for finishing with full and stiff handle Pad and coating application
<b>SMARTBIND ST</b>	N	4 -5	Liquid milky	Binder	Vinyl-acetate emulsion for full and stiff handle Pad application
<b>SMARTBIND RO</b>	A	4 -6	Liquid milky	Binder	Acqueous dispersion of acrylic Copolymer
<b>SMARTBIND CHB</b>	A	3-4	Liquid milky	Binder	Vinyl-acetate in aqueous dispersion

Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTRET BSF</b>	//	4,5 - 5,5	Liquid yellowish	Reactive resin	Low formaldehyde anti-crease resin for crease-resist finishing of cellulosic fibre and cellulosic \ synthetics blend
<b>SMARTRET C3</b>	//	8,5 - 9,5	Liquid Colourless viscose	Reactive resin	Melamine polymer resin for stiff handle finishing for cellulose, PAM, PES and PAC fabrics Cross-linking agent for polymeric resins in coating finishing Very Low- formaldehyde contents
<b>SMARTCAT BSF</b>	//	4-5	Liquid colourless	Catalyst	Catalyst consisting of an inorganic salt
<b>SMARTRET AP</b>	//	4-6	Liquid Colourless Up to yellow	Reactive resin	Low formaldehyde anti-crease resin for crease-resist finishing of cellulosic fibre and cellulosic \ synthetics blend
<b>SMARTRET MMA</b>	//	-	Liquid colourless	Reactive resin	Low formaldehyde melamine polymer resin

Product	Ionic Type	pH	Physical form	Function	Application
<b>SMART PU 325</b>	A	6-8	Liquid white	Polyurethane	Anionic PU for coating finishing with medium rigid, full and non-sticky handle
<b>SMART PU PSA</b>	A	6-8	Liquid white	Polyurethane	Anionic PU for coating finishing with soft, dry, elastic handle
<b>SMART PU PFN</b>	N	7-8	Liquid white	Polyurethane	Non-ionic PU for soft and full handle finishing Pad and Coating application
<b>SMART PU PSA/H</b>	A	6-8	Liquid white	Polyurethane	Anionic PU for coating finishing with soft, dry, elastic handle
<b>SMART PU V6</b>	A	7-8	Liquid white	Polyurethane	Anionic PU for top coating finishing with very rigid handle Excellent mechanical properties
<b>SMART PU PET 50</b>	A	7-8,5	Liquid white	Polyurethane	Anionic PU for coating finishing with medium rigid handle, very elastic . Very suitable with brushing finishing

## Water-oil repellents-stain release 3.5

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Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTGARD C</b>	N/C	4-5,5	Liquid white	Fluor-carbon	Fluor-carbon resin for good water and oil repellence finishing of all types of fabrics
<b>SMARTGARD B</b>	N/ weakly C		White emulsion	Fluor- carbon	Auxiliary water-repellent treatments
<b>SMARTGARD M3</b>	N	3,5 - 5,5,	White emulsion	Fluor-carbon	Fluor-carbon resin for water and oil repellence recommended for synthetic fibres
<b>SMARTGARD PLUS</b>	A	6-7	White dispersion	Extender	Extender for fluorocarbon resin finishing to improve washing and dry cleaning fastness
<b>SMARTGARD CEL</b>	N/C	4-5,5	White dispersion	Fluor-carbon	Fluor-carbon resin for cellulosic fibers and its blends fast to washing
<b>SMARTGARD TMI</b>	N/C	2-5	White emulsion	Fluor-carbon	Hydro and oleo-repellent agent
<b>SMARTIDROFOB WR</b>	C	4-5	Liquid white	Extender	Extender for fluorocarbon resin finishing to improve washing and dry cleaning fastness
<b>SMARTIDROFOB SI</b>	N	4-5	White emulsion	Water repellent	Water repellent silicon based



## Cap.4 TECHNICAL & SPECIAL FINISHING

### **Flame Retardants**

#### 4.1

Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTFLAM NPL</b>	//	5 -7	Liquid colourless	Flame retardant	Non-permanent flame-retardant for cellulosic fibers and cellulosic\pes blends water-soluble Pad application
<b>SMARTFLAM G</b>	//	6 -7	Liquid colourless	Flame retardant	Semi-permanent flame-retardant for cellulose and blends with high cellulosic contents Pad-application Meets BS5852 PART 1,after soaking test BS5651 requirements
<b>SMARTFLAM ST</b>	A	7 -9	Liquid white	Flame retardant	Flame-retardant for coating application with soft handle for cellulosic fibres Free of heavy metal Meets BS 5852 PART 1,after soaking test BS 5651 requirement
<b>SMARTFLAM SP</b>	//	6-7	Liquid colourless	Flame retardant	Semi-permanent flame-retardant for cellulosic and blend with high cellulosic contents Pad-thermosol 160°C application Meets BS 5852 PART 1,after soaking test BS5651 requirement

Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTFLAM NPS</b>		2 - 4	Liquid colourless	Flame retardant	Non-permanent flame-retardant for syntetic fibers Suitable for polypropilene
<b>SMARTFLAM PVTs</b>	A	7 - 9	White paste	Flame retardant	Compound ready to use for back coating all fibres
<b>SMARTFLAM RGMR</b>	A	7 -9	White paste	Flame retardant	Compound ready to use for back coating all fibers Soft handle
<b>SMARTFLAM RR3</b>	A	8-9	Liquid white	Flame retardant	Compound ready to use for back coating. Specific for acrylic fibers High concentration
<b>SMARTFLAM FOAM</b>	A	7 - 8	Liquid White viscouse	Flame retardant	Compound ready to use for back coating and foaming application
<b>SMARTFLAM LP/Conc.</b>	A	8-9	Liquid White viscose	Flame retardant	Compound ready to use for back coating
<b>SMARTFLAM PVTQ</b>	A	7 -9	Liquid white	Flame retardant	Compound ready to use for back coating of all fibres Suitable for reverse roll.
<b>SMARTFLAM ECO</b>	A	7 -8	Liquid white	Flame retardant	Compound ready to use for back coating of all fibers <i>halogen- antimonium free</i>

## Specialities – Compound ready to use 4.2

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Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTFINISH D.LAV</b>	N / A	8 - 9	Blue paste	Compound	Compound ready for coating INDIGO based
<b>SMARTFINISH FAT</b>	N / A	7-8	White paste	Compound	Fat waxy handle
<b>SMARTFINISH V</b>				Compound	Slippery and very soft handle
<b>BASE CROSTA SMARTFINISH CROSTA</b>	A	7-8	White paste	Compound	Double coat for leather effect
<b>SMARTFINISH BARBOUR TWO</b>	N/A	7-8	White paste	Compound	Barbour handle
<b>SMARTFINISH PAPER</b>	A	7-8	White paste	Paper handle finishing	Ready to use compound for full and paper handle finishing Air-knife coating Cylinder application
<b>SMARTFINISH LUCIDO</b>	//	//	White paste	Glossy finish	Ready to use compound for very high glossy finishing effect Blade coating application
<b>SMARTFINISH CTL</b>	A/ N	4-6	Liquid	Covering finishing for table cover fabrics	water-based compound for soft full handle cover finish for table fabrics Replacement of PVC application Air-knife coating application

Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTFINISH 1162</b>	A/N	7-9	White paste	Compounds ready to use	compound studied to be applied on coating process by knife or rolling
<b>SMARTFINISH PETRUS</b>	A/N	7-9	White paste	Compounds ready to use	special compound studied to give a re-polish effect on treated fabrics
<b>SMARTFINISH PUL</b>	A/N	7-9	White paste	Compounds ready to use	compound studied to be applied on coating process by knife or rolling
<b>SMARTFINISH D SOL</b>	A/N	7-9	Deep blue paste	Compounds ready to use	special compound studied to give a denim look on beached fabrics
<b>SMARTFINISH VTR</b>	A/N	7-9	White paste	Compounds ready to use	special compound studied to be applied on coating process by knife or rolling
<b>SMARTFINISH PELLE</b>	A/N	7-9	White paste	Compounds ready to use	compound studied to be applied on coating process by knife or rolling
<b>SMARTFOAMER SK</b>	A	7,5 – 8,5	liquid yellowish	Foaming agent	Foaming agent for finishing with foam
<b>SMARTFOAMER SA</b>		8,5 – 9,5	White paste	Foaming agent	Foaming agent for foam coating finishing
<b>SMARTFOAMER FA</b>	A	8 -10	Brownish dispersion	Foaming stabilizer	Stabilizer to optimise foam stability in combination with FOAMER SA
<b>SMARTFOAMER TRI</b>	A	5-7	Pale yellow paste	Foaming agent	Foaming agent for finishing with foam

## Thickeners

4.3

Product	Ionic Type	pH	Physical form	Function	Application
<b>SMARTHICK PT</b>	A	5,5 - 6,5	Liquid White viscouse	Thickener	Universal thickener for coating application No addition of ammonia is required for thickening effect
<b>SMARTHICK A3</b>	A	2,5 - 4,5	Liquid White	Thickener	Thickener for synthetic latexes and resins in aqueous emulsion To reach a good thickening effect the ph has to be around 8-9 by ammonia
<b>SMARTHICK AT 88</b>				Thickener	Universal thickening agent for all coating compounds Rapid thickening in wide pH range (from 4 to 12)
<b>SMARTHICK PUL</b>	N	5 -7	Liquid Colourless viscouse	Thickener	



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