

exclusively  
on the web

# DUAL ACTION

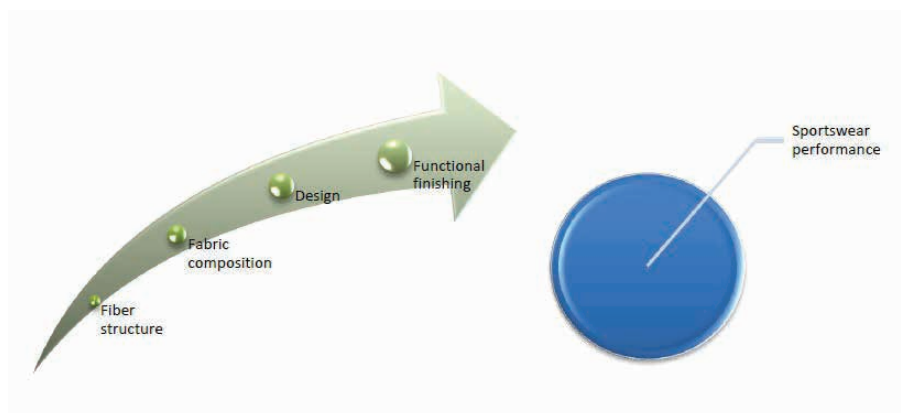


***THE LOGICAL INTERACTION  
BETWEEN TEXTILE PROTECTIVE FINISHING  
FOR SPORTSWEAR CLOTHES***



**Polysistec<sup>®</sup>**

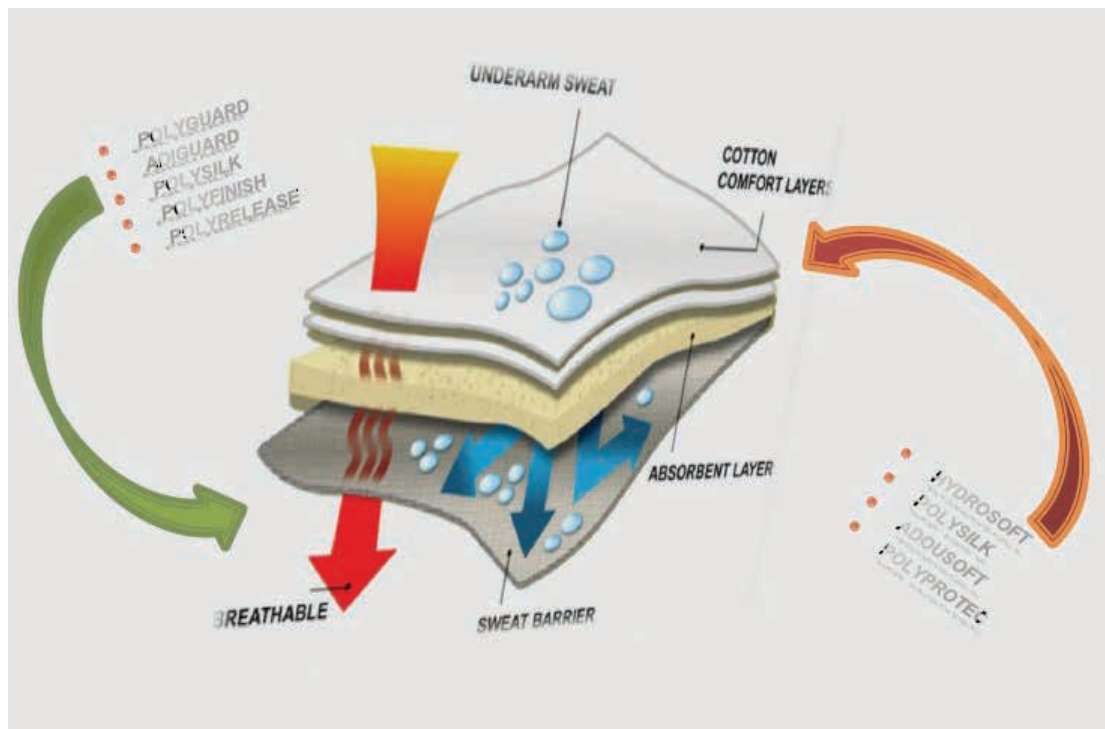
Polímeros y sistemas de aplicación técnica, S.L.



**Our wide range of advanced finishing polymers allows us to achieve the highest performance**

<b>POLYGUARD</b>	Hydrophobic / oleophobic polymers
<b>ADIGUARD</b>	Hydrophobic fluorine free
<b>HYDROSOFT</b>	Moisture management hydrophilic polymers
<b>POLYSILK</b>	Silicon softeners in nano, micro and macro forms
<b>POLIFINISH</b>	Polyurethane water dispersions and solutions
<b>ADISOFT</b>	HDPE macroemulsion
<b>ADOUSOFT</b>	Advanced hydrophilic softeners
<b>POLYPROTEC</b>	Protection advanced systems
<b>POLYRELEASE</b>	Microcapsules of fragrances and cosmetic ingredients

# DUAL ACTION



## Some benefits of Dual Action

- Better thermal and moisture regulation: keep dry system
- Increased water resistance (waterproof)
- Increased physical strength (tear, load-break)
- Ease of implementation on a variety of textile substrates
- More lasting effects that increase the longevity of the garment
- Fabrics lighter than those obtained by laminating processes
- High elasticity and flexibility
- Skin care: anti-cellulite, hydrating, healing, UV protection
- Insect repellency: mosquitoes
- Competitive price for its simplicity of implementation

# DUAL ACTION



## BREATHABILITY

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POLYFINISH PU  
POLYFINISH 8702



## HYDROPHILICITY

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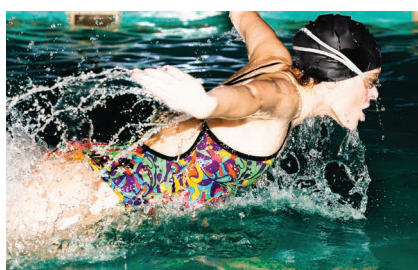
HYDROSOFT HPES  
HYDROSOFT PHR  
POLYSILK NN  
ADOUSOFT TO Liq.



## SMOOTHNESS

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POLYSILK NN	ADOUSOFT TO Liq.
POLYSILK UPF	ADISOFT EP
POLYSILK NPI	



## WATER +STAIN RESISTANCE

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ADIGUARD EXC  
POLYGUARD CS  
POLYGUARD SR6



## SKIN & CARE PROTECTION

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POLYPROTEC UVS	POLYPROTEC AMC
POLYPROTEC BBC	POLYPROTEC MR
POLYPROTEC AGPN	POLYRELEASE fragrances



# DUAL ACTION

	COTTON	VISCOUS	POLYESTER	POLYAMIDE	CO/PES	CV/PA
POLYFINISH PU	Rec	Rec	Rec	Rec	Rec	Rec
POLYFINISH 8702	Rec	Rec	Rec	Rec	Rec	Rec
HYDROSOFT HPES	Non Rec	Non Rec	Rec	Non Rec	Rec	Non Rec
HYDROSOFT PHR	Non Rec	Non Rec	Non Rec	Rec	Non Rec	Rec
POLYSILK NN	Rec	Rec	Rec	Rec	Rec	Rec
POLYSILK UPF	Rec	Rec	Rec	Rec	Rec	Rec
POLYSILK NPI	Rec	Rec	Rec	Rec	Rec	Rec
ADOUSOFT TO Liq	Rec	Rec	Non Rec	Non Rec	Rec	Rec
ADISOFT EP	Usable	Usable	Usable	Usable	Usable	Usable
ADIGUARD EXC	Usable	Usable	Rec	Rec	Rec	Rec
POLYGUARD CS	Rec	Rec	Non Rec	Non Rec	Non Rec	Non Rec
POLYGUARD SR6	Rec	Rec	Non Rec	Non Rec	Non Rec	Non Rec
POLYPROTEC UVS	Rec	Rec	Non Rec	Non Rec	Rec	Rec
POLYPROTEC BBC	Rec	Rec	Rec	Rec	Rec	Rec
POLYPROTEC AGPN	Rec	Rec	Non Rec	Non Rec	Rec	Rec
POLYPROTEC AMC	Rec	Rec	Rec	Rec	Rec	Rec
POLYPROTEC MR	Rec	Rec	Rec	Rec	Rec	Rec
POLYPROTEC REPEL	Rec	Rec	Rec	Rec	Rec	Rec
POLYRELEASE Frag.	Rec	Rec	Rec	Rec	Rec	Rec

Recommended - Usable - Non Recommended

\*Normally knits tend to use Lycra, doesn't substantially alter the products or formulation used.

\*\*See next guidance formulation



## **Knit fabric, Co/Pes, for trekking tee-shirts**

Requirements: Breathability, water absorbency, super smoothness and antibacterial properties.

POLYFINISH PU	15 gr/L
POLYSILK NPI	30 gr/L
POLYPROTEC BBC	10 gr/L

## **Knit fabric, Pa/Lycra, for cycle tee-shirts**

Requirements: Breathability, super water absorbency, smoothness and antibacterial properties

POLYFINISH 8702	30 gr/L
POLYSILK NN	30 gr/L
POLYPROTEC AGPN	8 gr/L

## **Knit fabric, Pes 100%, for synthetic towel**

Requirements: High water absorbency and smoothness.

HYDROSOFT HPES	30 gr/L
POLYSILK NN	30 gr/L

## **Fabric, Pa /Cv, for camping garments**

Requirements: Breathability, water resistance, smoothness and mosquito's protection.

POLYFINISH 8702	20 gr/L
POLYGUARD CS	40 gr/L
POLYRELEASE REPEL	40 gr/L

## **Knit fabric, Pa/Lycra, for anti-cellulite finishing**

Requirements: Encouraging blood circulation and will give vital effect to human skin.

POLYFINISH PU	10 gr/L
POLYPROTEC AMCI	30 gr/L

## **Fabric, Cotton or T/C, for minus ion hormesis for bed sheets**

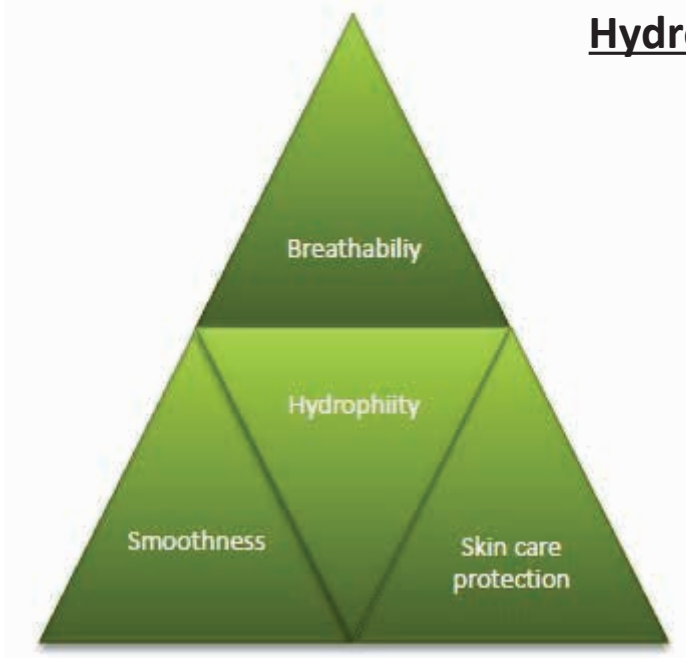
Requirements: Reduce ion charge.

POLYFINISH 8702	5 gr/L
POLYPROTEC MR	30 gr/L

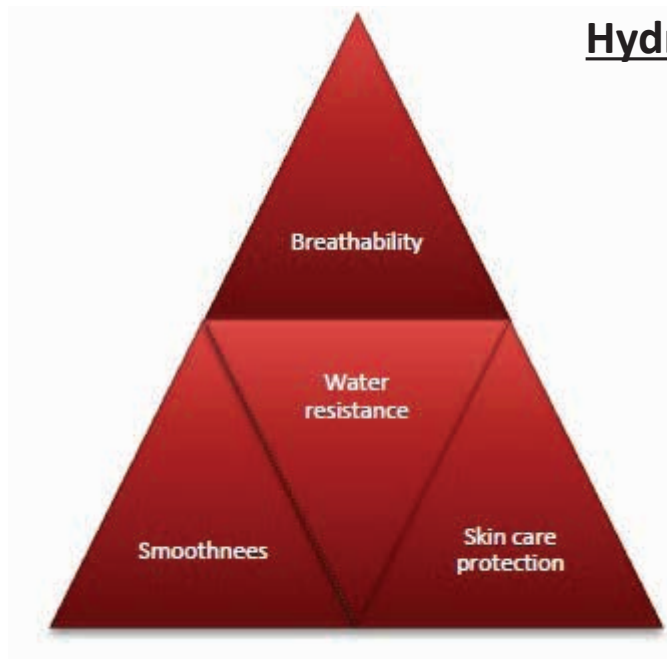
## **Knit fabric, Pes, Pa and theirs blends, for sunscreen finishing**

Requirements: Ultra violet radiation protection and smoothness,

POLYSILK UPF	10 gr/L
POLYSILK NN	20 gr/L



Hydrophilic finishing compatibility



Hydrophobic finishing compatibility



Polysistec started its activities in 1995, initially focusing on the design, manufacture and sale of chemical products for the textile industry. Later in the year 2005 the company began a diversification strategy creating the Industrial Business Unit which offers products for different sectors.

The continued research for new products and applications along with a policy of sustainability and respect for the environment have led to a progressive and constant presence in markets around the world.

In the facilities of Castellar del Vallès (Barcelona) R & D developments are performed in order to respond to each of their clients' needs. All this combined with the continued assistance provided by our Technical & Sales department, are the basis of the business.



Capcir, 12. Pol. Ind. Pla de la Bruguera  
08211 Castellar del Vallès (Barcelona)  
Tel. +34 937 146 960 - Fax +34 937 142 802  
[www.polysistec.com](http://www.polysistec.com) - [polysistec@polysistec.com](mailto:polysistec@polysistec.com)