

## Provieria fully bio-degradable products

Proklean Technologies Pvt Ltd, licensee of SCD Probiotics of USA, develops and markets probiotic, all-natural, non-toxic and fully bio-degradable products under brand name 'Provieria' that replace chemicals used in the textile industry.

Provieria's contribution to the textile industry comes in the form of an array of 100% biodegradable products meant for diverse stages of textile processing. The non-foaming soaping agents are Oeko-Tex complied.

**PRODET C** - A premium soaping agent for cotton/yarn fabric that offers several direct and indirect savings,

**PRODET +** - A premium soaping agent for woollen/silk fabric,

**PROSCOUR** - Effective, all-natural, scouring agent that needs very low application of Caustic Soda,

**PROEXCEL CDS** - A revolutionary product that purifies water and reduces effluents,

**PROLEVEL PLUS** - All-natural Levelling Agent that aids in uniform and patch-free dyeing.

Provieria products are manufactured using Probiotic microbes and other natural ingredients. They deliver excellent results to the textile processor in comparison to the chemicals they are currently using and at the same time provide direct and indirect cost savings.

Although these products are produced through a fermentation process, it is not an enzyme based product and offer several unique, unmatched advantages to the textile manufacturers :

- Are more profitable than regular chemicals as they are more effective and give better yield and at the lower levels of pricing
- Pollute less as they are all-natural, non-toxic and fully bio-degradable. They are also non-foaming and hence consume lesser water and consequently increase efficiency of the effluent treatment plants
- Work in a broad range of pH thereby removing the need to adjust pH

Globally first of its kind technology.

## FOR SAVING WATER AND ENERGY IN TEXTILES PROCESSING.

Proklean presents the textile industry with a revolutionary solution: Probiotic Technology - an effective, affordable and profitable replacement for chemical auxiliaries. This is easily the best way to ensure that operational cost down along with pollution level.

**The Proviera Advantage:**

- Saves water
- Saves energy, labour cost and cuts down the processing time
- Lesser effluent to treat
- Saving of energy cost
- Reduce the effluent load
- Excellent fastness and brighter colours

PRODET C	PRODET +	PROLEVEL +	PROEXCEL <sup>CDS</sup>	PROSCOUR
For Soaping of Cellulose Yarns & Fabrics.	For Soaping of Woolen Yarns & Fabrics.	For Chelating, Demineralizing & Sequestering.	Leveling agent for Uniform and Patch Free dyeing.	For Scouring, Wetting and De-Waxing of Cellulose.




ALL NATURAL



BIODEGRADABLE





Licensee of  
**SCD**  
Probiotics.  
INDIA

Manufactured & Marketed by: **ProKlean Technologies Pvt. Ltd.**  
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Non-toxic



Non-corrosive



Non-hazardous



- Are efficient even at lower temperatures - for e.g., in textile processing ProKlean products work at 40°C itself instead of the conventional high temperatures that are required for chemicals. This translates into lower energy consumption and thus further savings
- Reduced consumption of water means lesser effluent to treat.
- Better quality of end product in terms of excellent fastness and brighter colours
- Reduce requirement of several polluting chemicals.

These products are being manufactured and sold in India, Dubai, USA, Hungary, China, Brazil, Mexico, Turkey, Thailand and Ethiopia.

ProKlean has been promoted and is being managed by industry veterans who have a combination of deep research and biotechnology expertise, sales and marketing expertise and operations management exposure. The company is a Licensee of SCD Probiotics, USA.

For more details contact : [contact@proklean.in](mailto:contact@proklean.in), [www.proklean.in](http://www.proklean.in)

## Wico new roller coating system

In over 20 years of consistent corporate development, WICO established itself in the market as a specialist for textile coating and laminating by using thermoplastic hotmelt adhesives. These hot-melt adhesive offer advantages for the production process as well as the processing in the course of different possible applications. The hot melt coating can be reactivated and is therefore easy to handle, convenient and cost-effective. WICO is able to fix in place a customised polymer solution on the respective textile. For this purpose, the company provides different processes for textiles of various sorts and on the basis of different raw materials, such as woven fabric, hosiery goods and knitted goods (cotton, PA, PES), foam material (PU, PE, latex, EVA), nonwoven fabrics (PA, PES, PP, glass), membrane, synthetic leather, paper and much more. As supplier for the leather working industry, WICO also has great competence in the field of leather lamination.

The new, state-of-the-art roller coating and laminating

system is utilised by WICO for the coating of textiles with molten hot-melt adhesive. It enables the usage of a broad range of thermoplastic hot-melt adhesives. Besides a variety of possible application grids, given by the gravure of the heated coating roller, it is also possible to draw up plain films onto the surface of the textile. The inserted thermoplastics already melt as from 60°C. From now on, the application of types with essentially higher activation temperatures up to 160°C is possible as well. The machine works efficiently and uses less adhesive.

Furthermore, lamination is realisable with this system. The existing manufacturing lines can be expanded by a so-called lamination via PU Reaktiv. Such bonds are high heat- and wash-resistant due to their thermosetting property. After the cross-linkage, this type of adhesive enables an indissoluble compound of heterogeneous and homogenous substrates. With the new system WICO can process a working width up to 2.10 metres. The basis of the hot-melt adhesives are CoPA, CoPES, EVA, APAO, TPU and PU Reaktiv.

For further details, log on to [www.wico-textil.de](http://www.wico-textil.de)

## Schappe high-tech yarns for technical textiles

The spinning mill Schappe Techniques, Blyes/France, produces high-performance technical fibres (p-aramids, m-aramids, PE-HMW, carbon, etc), converts 'filaments' in staple fibres by using a stretch-breaking technology which was developed in house in the 1950's. Basically, the continuous thread filaments are stretched until they break. This is done to eliminate their weak point and give them new strength properties. The yarns can be made



of a single material or a blend with other fibres, which provide additional characteristics. These high-tech products are used for very specific applications and in niche markets e.g. personal protection (mechanical and thermal), sealing, rubber reinforcements, technical sewing thread and composites.

Schappe range includes :

- Fibre yarns made from Dyneema and Diamond fibres with the aim of providing manufacturers of protective gloves with thread that combines the comfort and flexibility of spun yarn with improved cut-resistant performance.
- A new range of aramid technical sewing thread for making protective clothing, combining the performance of staple fibres, which is significantly more effective than short fibres, at a reasonable price. New technical sewing threads based on Black Twaron solution-dyed p-aramid fibre.
- The extended TPFL range of carbon pre-impregnated thermoplastic yarns and textures is enriched with the PEI matrix (polyetherimide : high-performance polymer, particularly in