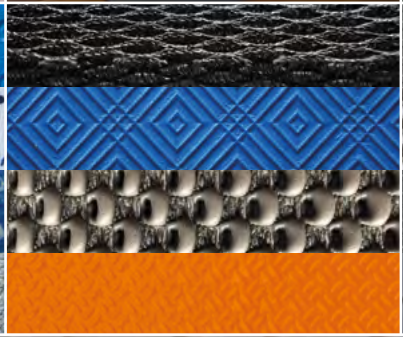
WUNDERLICH

friedola 1888

TECHNICAL SOLUTIONS

Traffic & Transportation	Building & Construction	Sports & Health	Work & Safety
			
			

QUALITY MADE IN GERMANY SUSTAINABILITY

VERSATILE • INNOVATIVE • FAST

OUR COMPANY

Our company goes back all the way to 1888 and is one of the leading quality providers of synthetic-based interior and exterior furnishings for the household textiles and leisure market as well as for numerous areas of technical application. With both of our production sites in Meinhard-Frieda and Osterode, we represent versatile manufacturing processes.


Production site Meinhard-Frieda





In our business area **‚TECHNICAL SOLUTIONS'**, as an innovative manufacturer of technical films, foamed and coated carrier materials, as well as technical knitted goods, we predominantly offer customer-individualized and tailored product, furnishing, and fabrication solutions.

Our high-performing sales and development team is happy to work with you on integrated solutions for precisely defined applications and functions. In our laboratory and with the available experimental laboratory plant, step-by-step your product ideas will begin to take realistic shape. In this way, not only can we react to your requests fast and flexible, but we can also successfully incorporate ourselves much more proactively in the system solutions of your industry with our product suggestions.

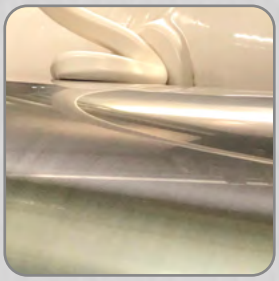
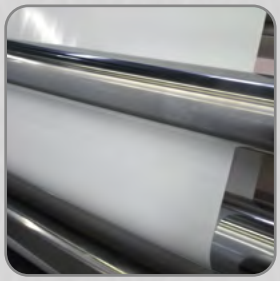

Production site Osterode



OUR PRODUCTION POSSIBILITIES

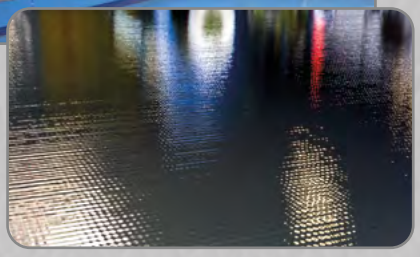
Film extrusion / Calendar coating

Application method:	Calendaring / Nozzle application
Utilized plastic:	Granulate / Dry-Blend with basis of: PVC • EVA • TPO • TPU • PP • PUR • PE
Coating grammages:	120 g/m² to 3.000 g/m²
Finished-width spectrum:	800 mm to 2.180 mm
Inline options:	Embossing • Trimming • Laminating

Textile coating / Foaming

Application method:	Squeegeeing • Padding • Slop padding (Kiss-Coating) • Rotating stencil application
Utilized plastisol / Auxiliary textile agent:	PVC • PUR • Latex • Acrylate • Watery dispersions
Coating weight:	50 g/m² to 4.000 g/m²
Finished width:	to 4.600 mm
Inline options:	• Embossing up to 2,500 mm finished width • Gravure and screen printing with 6 plants up to 2,100 mm finished width • Varnishing up to 2,100 mm finished width • Trimming

Surface area-finish

Printing / Varnishing:	Rotatable gravure printing with 6 plants up to a maximum of 2,000 mm finished width • Solvent, UV, watery lacquers
Separate embossing and laminating:	• Up to 2,100 mm finished width • Maximum of 3 layers • Grit application (application of grit glue / flakes)




Textile surface generation

Machines and technologies:	• Textile knitting fabric machines with various design, performance and technology (crochet fabric and rustling „Raschel“ technology) • Manufacture of spacer fabrics, open and closed mesh structures and coating carrier materials • Maximum finished width up to 4,800 mm




Competence center development and pilot plants

Pilot plants:	• Development and sample production of films, width max. 60 cm and foaming of max. 40 cm in pilot scale • Film plants including pelletizing extruder (wide-slit nozzle, rolling mill, granule plant) • Air-circulating oven for phase-outs and quality control • Color measurement including formulation, manufacture of color batch • Weathering, lightfastness, and UV check according to DIN EN ISO*, fire test according to DIN 75 200 and DIN 54 837



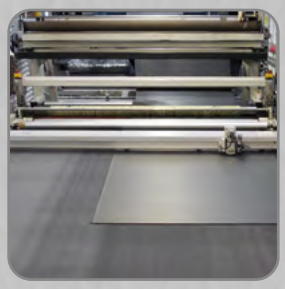

OUR PRODUCTION POSSIBILITIES

Other services

Fabricating:

- Trimming
- Punching
- Sewing
- Packaging





Recycling: Sorting, palletize and compacting plastic waste







YOUR BENEFITS

- Intensive support in the preparation of your product-specific requirements profile
- Special developments and project realization in close cooperation with your specialist departments
- Contract processing with material provision or full-scale business depending on customer request
- Manufacture of your products according to specification / standardization
- Problem solving with a high degree of innovation and quality
- Great flexibility through
  - Versatile production possibilities at two locations
  - Well-thought-through and quick project implementation at all levels
- All friedola® and Wunderlich products are Made in Germany



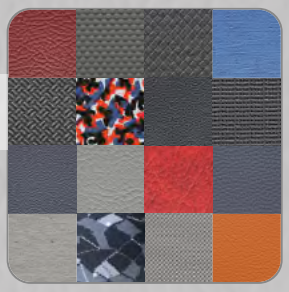






OUR INDUSTRY & COMPETENCIES





Traffic & Transportation

Special components and system solutions for mobile applications

Our mobile products especially distinguish themselves through their resilient coating structures, extremely durable, various decorations, as well as optically and haptically appealing surface concepts. Hereby, technical films, artificial leather, as well as bilaminate and trilaminate are used.

Applications:

- Seat covers
- Roof liners
- Arm rests
- Center consoles
- Liner mats, floor coverings, and anti-slip inserts
- Foot protection applications
- Spray-suppression systems
- Trimmings
- Lordosis-leaning supports
- Sidewall coverings
- Trunk linings
- Bellows





Building & Construction

Protective and functional films for innovative construction projects

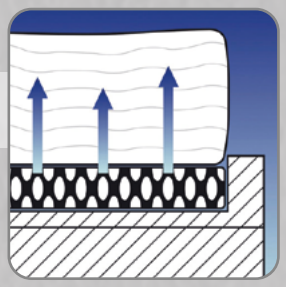
Maximum reliability and safety, even under extreme conditions – that's what it's all about with our innovative solutions for special construction projects. Along with technical films, here sophisticated bilaminate and trilaminate play an especially prominent role.

Applications:

- Sewer renovation – in-liner film
- Formwork films
- Cast film (among others, as matrix for concrete-cast processes)

OUR INDUSTRY & COMPETENCIES





Sports & Health

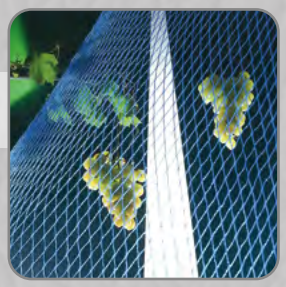
Intelligent solutions for your well-being

We also offer tailored and health-promoting solutions in the area of sports & health. Special high-tech foams, various coatings and laminations as well as a broad service portfolio of bilaminates and trilaminates clearly satisfy the defined technical requirements, e.g. excellent shock absorption and padding, antimicrobial characteristics, comfortable haptic as well as a modern design.

Applications:

- Sports and gymnastics mats
- Protective nets
- Mattress pads
- Seat cushions
- Drainage mats
- Base mats for floors intended for sports





Work & Safety

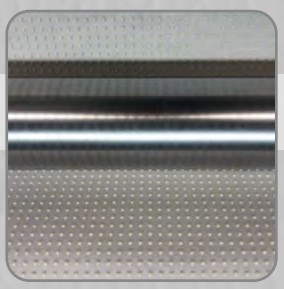
Product solutions for your work and safety

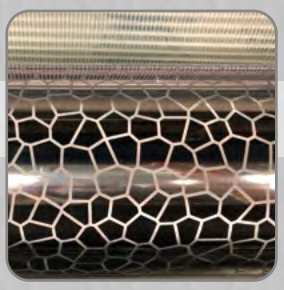
Product solutions for work and safety continue to grow in importance in one's professional and private life. We have been taking account of this development with our customer-individualized product solutions for years. Application-oriented foams, all-over coatings and laminations, dot and fakir coatings as well as bilaminate and trilaminate belong to our service spectrum.

Applications:

- Anti-slip mats
- Comfort and anti-fatigue mats
- Mats for special industrial and work areas
- Loading and transport safety
- Storage space coverings
- Protective and trawl nets

OUR INDUSTRY & COMPETENCIES


Contract processing and laminating

Intelligent finish solutions for your products from a single source

Whether knitted fabric, nonwoven or woven - we process your products exactly how you want them. With our versatile machine park at two locations, we can specifically offer the following processing services:

Services:

- All-over coating of textile carriers
- Dot and fakir coatings
- Printing and varnishing of foams and films
- Embossing on foams and films
- Laminations (bilaminate and trilaminate, grit glue – flakes)
- Heat setting
- Trimming (longitudinal and cross section)
- Punching
- Cutting

Customers: Cross-industry

Examples of product properties:



OUR QUALITY PROMISE

All products from friedola® and Wunderlich are manufactured following strict environmentally friendly requirements. Of course, we also take this as a basis in the procurement of the used materials. With that, we ensure you that every product with the names friedola® and Wunderlich is a product of „excellent“ quality.

This is guaranteed specifically through:

- A successfully implemented quality-management system according to DIN EN ISO 9001
- Certification according to OEKO-TEX® STANDARD 100
- Adherence to customer specifications, norms and laws (e.g. Reach conformity, raw material and processing-process guidelines, etc.)
- Standardized tests in our laboratory according to DIN EN ISO
- Testing of new techniques and opportunities through laboratory tests
- Sustainable supplier management as well as seamless quality documentation
- Production of environmentally friendly products as well as permanent inspection of our processes with regard to sustainability and environmentally relevant aspects



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