





Membranes for countless applications

Textile structures, as an integrated component of contemporary architecture, get more and more common world-wide. Improved materials and advanced engineering allow for new and larger challenging constructions. Architects and planners now have the possibility to realise their visions and their demand on perfection in function and appearance.

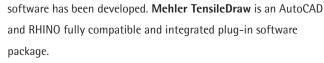


Mehler Texnologies follows this demand! Practically proven membranes, with application-specific surface finishes, coupled with ongoing research and product optimisation, support architects and planners in the realisation of their ideas.

The product range VALMEX® structure has especially been developed for textile architecture. It stands for most diverse applications:

- Open, enclosed, convertible, and attached
- Tensioned membrane, frame supported, and air supported structures

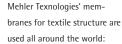
To support architects and engineers to generate 3D models of tensile structures, a new



Mehler TensileDraw is a useful help in 3D model design: it can simulate well balanced force stress distribution on the membrane surface without complicating file exportation and related compatibly problems.

The application can calculate the

form of complex geometry fabric structures thanks to the generation of a warp and weft beam mesh reproducing orthotropic behaviour of fabric material.

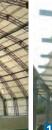


- 1 China
- 2 United Kingdom
- 3 Brazil
- 4 China
- 5 China
- 6 Australia
- 7 Australia
- 8 Poland
- 9 Romania
- 10 Germany

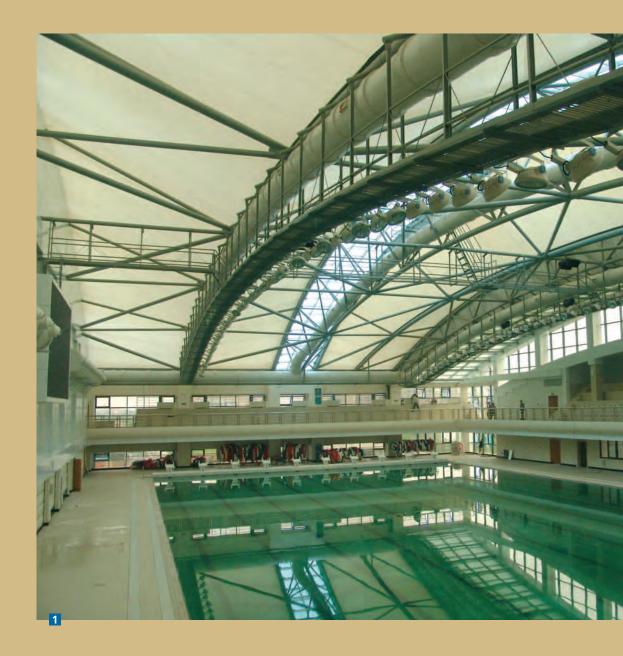














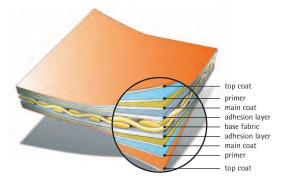


Fabrics to create future

VALMEX® **MEHATOP F** is a multi-layer composite material with special densely woven low-wick yarns in the base fabric. Several coatings (adhesion, main coat, primer) give necessary tightness and flexibility. The surface lacquering, that includes PVDF lacquer (MEHATOP F) developed by Mehler Texnologies, finishes the material with a double top coat that has a protective and refining effect. That is why **VALMEX® MEHATOP F** membranes

maintain their unique appearance long term, and under extreme climatic conditions. Apart from the application diversity, the material characteristics are particularly convincing:

- Very water and dirt repellent, thus a low level of surface pollution
- Good surface barriers as sealants against plasticiser migration
- Improved cleaning behaviour
- · Reduced invasion of fungus and micro-organisms into the membrane
- · Good weldability
- High temperature resistance
- Good long-term appearance



Conventional MEHATOP F cleaned after 14d at 70°C





- 1 China
- 2 Iran
- 3 Great Britain
- 4 South Africa
- 5 Italy
- 6 Korea
- 7 Germany











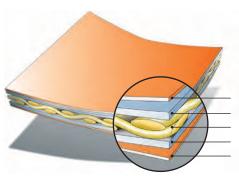
courtesy of Custom Covers

From shelter to architecture

The tent belongs to the oldest housings that mankind has created. As it can be build up and dismantled quickly, the tent stands for mobility, immediate utilisation and independence from time. Events, presentations, leisure time applications or simply roofing and shelter turn tents into an essential part of culture and lifestyle.

With **VALMEX**® **tent**, Mehler Texnologies has created an application-specific product range opening up all construction, size and application possibilities to planners, architects and manufacturers.

As in VALMEX® structure, the base fabric in VALMEX® tent does also consist of low-wick yarns. The special surface with PVDF or acryllic lacquering provides for high water and UV resistance and protects against infestation by fungus and micro-organisms. High tear resistance and a relatively low weight favour the quick build up and dismantlement, particularly in marquees.



surface coating main coating base fabric main coating surface coating

Suitable material for each application:

- 1 MEHATOP F
- 2 VALMEX® FR 650-2
- **3** Bright atmosphere by translucency of fabric
- 4 VALMEX® FR duo opak
- 5 POLYMAR® Poly opak
- 6 Pagoda tent
- 7 City scape
- 8 Pole tent
- 9 Free span



- Flame retardant
- Fungicide treatment
- High tensile strength and tear resistance
- Good UV resistance
- High water pressure resistance
- · Easy to weld
- Easy to clean
- Impressive long-term appearance









and shadow







Protecting efficiently from sun

Sun protection, shading and air conditioning are factors for the value maintenance, productivity and life quality that must not be underestimated. Moreover, the economic aspect of energy saving makes sun protection and shading more and more attractive – also in smaller objects.

Mehler Texnologies has developed several product ranges that are adjusted to these specific applications.

Apart from material qualities of the VALMEX® structure products that are e. g. used as car park roofing, the product range AIRTEX® offers fabrics covering the whole outside shading area. Examples are awnings, gastronomy umbrellas and sunshades and leisure time applications.

With **FLASHGUARD**°, architects, planners and the sun protection trade do have consistent fabrics at their disposal that are

adjusted to the requirements of shading systems and constructions. It can be used for both, shading inside and outside. **FLASHGUARD**® aims at the creation of a natural and comfortable room climate. The fabric has an open structure, outward sight is unlimited and natural illumination is

maintained to the largest possible extent. An advantage that will create relaxed work, particularly at computer work places. Many colours allow on the one hand for an individual light and room atmosphere, on the other hand, shading systems can be used in an

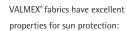
integrative or accenting way in building design.

With VALMEX® sol-boutique,

blind fabrics are available that have particularly been developed for decorative and commercial outside shading.







- 1 VALMEX® FR 900
- 2 VALMEX® MEHATOP F
- 3 VALMEX® FR 1400
- 4 VALMEX® FR 700
- **5** VALMEX[®] FR 1000
- 6 VALMEX® FR 900
- 7 VALMEX® highly translucent
- 8 FLASHGUARD®
- 9 FLASHGUARD®
- 10 VALMEX® silver MESH













German technology for technical textiles

In the market of coated fabrics, Mehler Texnologies is one of the leading international companies. More than 50 million square metres of material are manufactured and supplied

under the brands VALMEX®,

POLYMAR® and AIRTEX®.

Clients are companies in the manufacturing, fabrication and converting industry. The technology for the fully developed technical textiles comes from 60 years of experience in development and production. Continuo-



us ongoing research and development further enhances existing composite materials, and opens up new ranges of application. To ensure the consistent high quality of products means to continually keep up to date with the latest state-of-the-art technology. The responsible way in which the company deals with energy and resources, its use of environmentally sustainable materials and its activities related to the recycling of coated textiles have been bundled by Mehler Texnologies under one all embracing label.



Mehler Texnologies manufactures its technical textiles at two sites in Germany and one site in the Czech Republic. Clients in more than 80 countries are supplied by sales companies in Italy, France, Great Britain, Poland, Latvia, Romania, Turkey, Middle East, Far East and the United States as well as sales agents in other European countries, Asia, Australia, Africa and South America.

















Manufacturing of coated fabrics is committed to highest

3 Weaving loom (high speed) 4 Blend the compound

quality standards:

2 Warp beam

1 Precision coater

5 Spread the coating

8 Assured quality

9 Biaxial strenght test

10 Tensile strength test 11 Seam strength test

12 Tear strength test 13 UV resistance test

6 Que for top lacquering 7 Coating up to 5 m width

> Due to its commitment to environmental responsibility and sustainability Mehler Texnologies is participating in external recycling systems and in the 'voluntary commitment of the PVC industry' VinylPlus.

Mehler Texnologies - around the world

Manufacturing and sales



Germany

Mehler Texnologies GmbH

Rheinstrasse 11 D-41836 Hückelhoven info@mehler-texnologies.com

Mehler Texnologies GmbH

Edelzeller Strasse 44 D-36043 Fulda info@mehler-texnologies.com



Mehler Texnologies s.r.o.

Karla Čapka 1085 CZ-512 51 Lomnice nad Popelkou info@mehler-texnologies.cz



SC Mehler Texnologies S.R.L.

Str. Linia de Centura Nr.2, D2 RO-077175 Stefanesti de Jos (Judetul Ilfov) office@mehler-texnologies.ro



Mehler Texnologies Ltd.Şti.

Başakşehir San. Sit. A Blok No: 22, Başakşehir TR- İstanbul info-tr@mehler-texnologies.com



Mehler Texnologies, Inc.

220 B Cabell Street Martinsville, VA 24112 lvia@mehlertex.com





Mehler Texnologies SARL

Bât. A1, 3 chemin des Cytises F-69340 Francheville info-fr@mehler-texnologies.com



Arab **Emirates**

Mehler Texnologies Middle East

Dubai Airport Free Zone P.O.Box 293634 Dubai-UAE n.benfrej@mehler-texnologies.com



Mehler Texnologies Ltd.

Unit 1.7, Hollinwood Business Centre Albert Street, Oldham, Lancs, OL8 3OL info-uk@mehler-texnologies.com



Mehler Texnologies India

Plot No. 52, Udyog Vihar Phase - VI, Sector 37, Gurgaon - 122001, India info@mehler.in



Mehler Texnologies South East Asia

Avenue Business Center 15th Floor 1B-15, Block 1B, PLAZA SENTRAL, Jalan Stesen Sentral 5, KL SENTRAL 50470 Kuala Lumpur, Malaysia k.qureshi@mehler-texnologies.com



Mehler Texnologies S.p.A.

Via Enrico Fermi 52 I-20019 Settimo Milanese info-it@mehler-texnologies.com



Malaysia

Mehler Texnologies Russia

Sadovnicheskaya embankment 79 115035 Moscow russia@mehler-texnologies.com



Mehler Texnologies SIA Maskavas iela 418

LV-1063 Riga info@mehler-texnologies.lv



EUSOURCE INTERNATIONAL

Guangzhou Office R.806 Goayage, Tianyu Garden 152 Linhe Zhong Road Guangzhou 510610 brigittehuang@googlemail.com



Mehler Texnologies Sp. z o.o.

ul. Mikołajczyka 31a PL-41-200 Sosnowiec info-pl@mehler-texnologies.com



China

