



VALMEX[®] structure

**applications
properties
advantages**

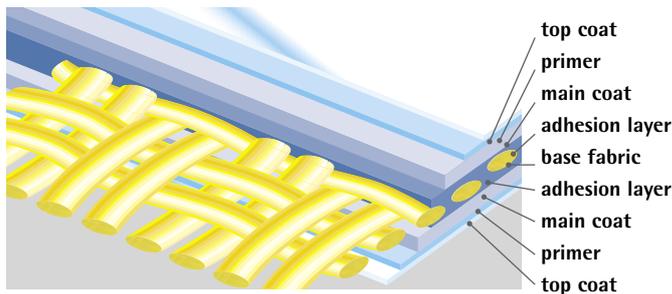


MEHLER
TECHNOLOGIES

VALMEX® MEHATOP F

Mehler Technologies is a company with most experience in PVC coating. First membrane structure materials have been produced in the early sixties. Because of the various range of fabrics for other applications like tarpaulins, tents, sun protection, environment and industry Mehler Technologies has a great know-how and is able to manufacture fabrics of highest quality.

Mehler Technologies' membrane **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 Technologies, 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, even under extreme climatic conditions.



Schematic sectional drawing of **VALMEX® MEHATOP F**

MEHATOP F is applied to both sides of the membrane. Because of its special components it is directly weldable and needs no grinding. This ensures welding of exact seams, reduces invasion of fungus and micro-organisms into the membrane and is good surface barrier as sealants against plasticiser migration.

Base fabrics of **VALMEX® MEHATOP F** is a double threads fabric, commonly described as "Panama" weave. It makes membranes stronger for tension and increases resistance. The material is "prestressed", warp direction has less stretch and weft direction has more stretch than comparable fabrics.

Mehler Technologies runs biaxial tests at the laboratories of the University of Essen. Essen University runs the tests according to a standardized procedure, known as MSAJ/M-02-1995. These results are provided free of charge and gives the engineer workable figures on hand. If the engineer needs results under other testing conditions, Mehler Technologies does arrange tests at the University of Essen and / or at laboratory BLUM.

The average time of membrane structures in use is approx. 10 years. As Mehler Technologies is committed to its customers the Mehler Technologies warranty covers this period.

Type	Weight (g/m ²)	Tensile strength Warp/Weft (N/50 mm)	Tensile resistance Warp/Weft (kN/m)
VALMEX® FR 900	II 900	4200/4000	84/80
VALMEX® FR 1000	III 1050	6000/5500	120/110
VALMEX® FR 1400	IV 1350	7500/6500	150/130
VALMEX® FR 1600	V 1550	10500/9000	200/180

Standard width 250 cm



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