

SikaBlock® M700 Model board

Areas of Application

- Manufacture of data control models and cubings
- Manufacture of master models
- Manufacture of moulds for low pressure reaction injection moulding
- Vacuum forming moulds for lower number of pieces

Product Benefits

- Very high dimensional stability
- High compressive strength and edge stability
- Good solvent resistance
- High heat distortion temperature
- Easy machinability
- Low dust formation by milling
- Very dense, fine surface
- Easy to seal and good to varnish

Description

- Basis Polyurethane, light brown
- Adhesive Biresin® Kleber braun, two-component-PUR-system, brown
- Filler Biresin® Spachtel braun, two-component-polyester-system, brown

Physical Data (approx.-values)

SikaBlock® M700

Property	ISO	Unit	Value
Density	ISO 845	g/cm ³	0.7
Shore hardness	ISO 868	-	D 66
Flexural strength	ISO 178	MPa	26
E-Modulus	ISO 178	MPa	1,000
Compressive strength	ISO 604	MPa	25*
Impact resistance	ISO 179 Ue	kJ/m ²	7
Heat distortion temperature	ISO 75 B	°C	90
Linear thermal expansion coefficient α_p	DIN 53 752	K ⁻¹	50 - 55 x 10 ⁻⁶

* at 10% compressive strain

Processing Data

Adhesive / Filler	Biresin® Kleber braun	Biresin® Spachtel braun
Mixing ratio in parts by weight	100 : 65	100 : 2
Potlife min	20	5
Setting time h	8 - 10	> 20 min

Packaging

Board materials	SikaBlock® M700	1500 mm x 500 mm x 50 mm, 25 pieces / pallet 1500 mm x 500 mm x 75 mm, 16 pieces / pallet 1500 mm x 500 mm x 100 mm, 12 pieces / pallet
Adhesive	Biresin® Kleber braun, resin Biresin® G53, hardener	1.5 kg net 4 kg; 0.975 kg net
Filler	Biresin® Spachtel braun, resin BPO-Paste, hardener	2 x 8.74 kg net cartridges 6 x 1.76 kg net tins in a box 2 x 0.16 kg net sticks (for cartridges) 6 x 0.04 kg net tubes in a box (for tins)



Processing

- The material must be acclimatised to 18 - 25°C prior to machining.
- Machining of the block is easily accomplished by sawing, milling and so on with high performance tools or by hand.
- Bonding areas must be clean, dry and free of dust and grease or oil. For bondings use e. g. Biresin® Kleber braun (for more information see Technical Data Sheet).
- For more information about milling please seek advice from cutting tool manufacturer or our separate leaflet.
- For correction or finishing of surface use Biresin® Spachtel braun (for more information see Technical Data Sheet).

Storage

- Product has un-limited shelf life when stored flat in dry conditions.
- During storage and transport of finished tools and models temperature variations should be kept as moderate as could be.

Health and Safety Information

For information and advice on the safe handling and storage of products, users should refer to the current Safety Data Sheet containing physical, ecological, toxicological and other safety related data.

Disposal considerations

Product Recommendations: Must be disposed of in a special waste disposal unit in accordance with the corresponding regulations.

Packaging Recommendations: Completely emptied packagings can be given for recycling. Packaging that cannot be cleaned should be disposed of as product waste.

Value Bases

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Legal Notice

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