BUILDING TRUST

PRODUCT DATA SHEET

# SikaBlock® M80

Polyurethane design board

## TYPICAL PRODUCT DATA

| | |
|---|---|
| **Chemical base** | Polyurethane |
| **Color** | Beige |
| **Density** | 0.08 kg/l |
| **Compressive strength (ISO 844)** | 0.8 MPa |
| **Flexural strength (CQP027-2 / ISO 178)** | 1.1 MPa |
| **Flexural modulus (CQP027-2 / ISO 178)** | 24 MPa |
| **Thermal conductivity (ASTM C-518)** | 0.024 W/(m·K) |
| **Linear coefficient of thermal expansion (CQP053-1 / ISO 11359)** | 60 x $10^{-6}$ 1/K |
| **Service temperature** | -60 – 100 °C |

CQP = Corporate Quality Procedure

## DESCRIPTION

SikaBlock® M80 is a polyurethane design board for manufacturing of styling models and design studies.

## PRODUCT BENEFITS

- Easy workable
- Very low thermal expansion
- Good adhesion of putties

## AREAS OF APPLICATION

SikaBlock® M80 is perfectly suited for manufacturing of substructure for design, styling and clay models.
It is also recommended for manufacturing of styling models and design studies.
This product is suitable for experienced professional users only. Tests under actual processing conditions and with additional materials such as coatings and release agents must be performed to proof material compatibility.

## METHOD OF APPLICATION

### Product preparation

Before SikaBlock® M80 boards can be processed (machined) they must be conditioned to 18 °C – 25 °C.
If the boards need to be bonded, make sure that the surfaces are clean, dry and free of grease or oil.
For bonding SikaBlock® M80 boards together use SikaBiresin® B200. Further details on the adhesives can be found in the respective Product Data Sheet.

### Application

SikaBlock® M80 can be easily machined by milling, drilling, sawing or modified manually. It is recommended to use high performance tools to machine these boards.
For milling parameters check information from cutting tool manufacturers or get the General Guideline “Milling parameters for SikaBlock®” for more general information.

## STORAGE CONDITIONS

The board needs to be stored flat over the entire surface in dry conditions.
Many models and tools are made of bonded boards, either with identical or other materials. Storage at low and elevated temperature can lead to high stresses due to the different expansion coefficients. To prevent this, it is necessary to store the models and tools at a temperature range between 15 °C and 30 °C.

## FURTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.
Copies of the following publications are available on request:

- Voluntary Safety Information Sheet
- General Guideline
  Milling parameters for SikaBlock®

## PACKAGING INFORMATION

| Dimensions [mm] | Pcs./pallet |
|---|---|
| 2000 x 1000 x 100 | 12 |
| 2000 x 1000 x 200 | 6 |
| 2000 x 1000 x 300 | 4 |
| 2000 x 1000 x 400 | 3 |

## BASIS OF PRODUCT DATA

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

## HEALTH AND SAFETY INFORMATION

This product contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A Safety Data Sheet is therefore not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the Voluntary Safety Information Sheet.

## DISCLAIMER

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