



SikaBiresin[®] MC80

SUSTAINABLE MODELS MADE WITH ADDITIVE MANUFACTURING

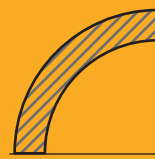
The sustainable 3D printing solutions with Sika Biresin[®] MC80 bring a lot of advantages compared to the conventional construction method with model boards:



50 %

time savings

no bonding and less milling effort



55 %

material savings

no lost mold and hollow construction



90 %

less waste

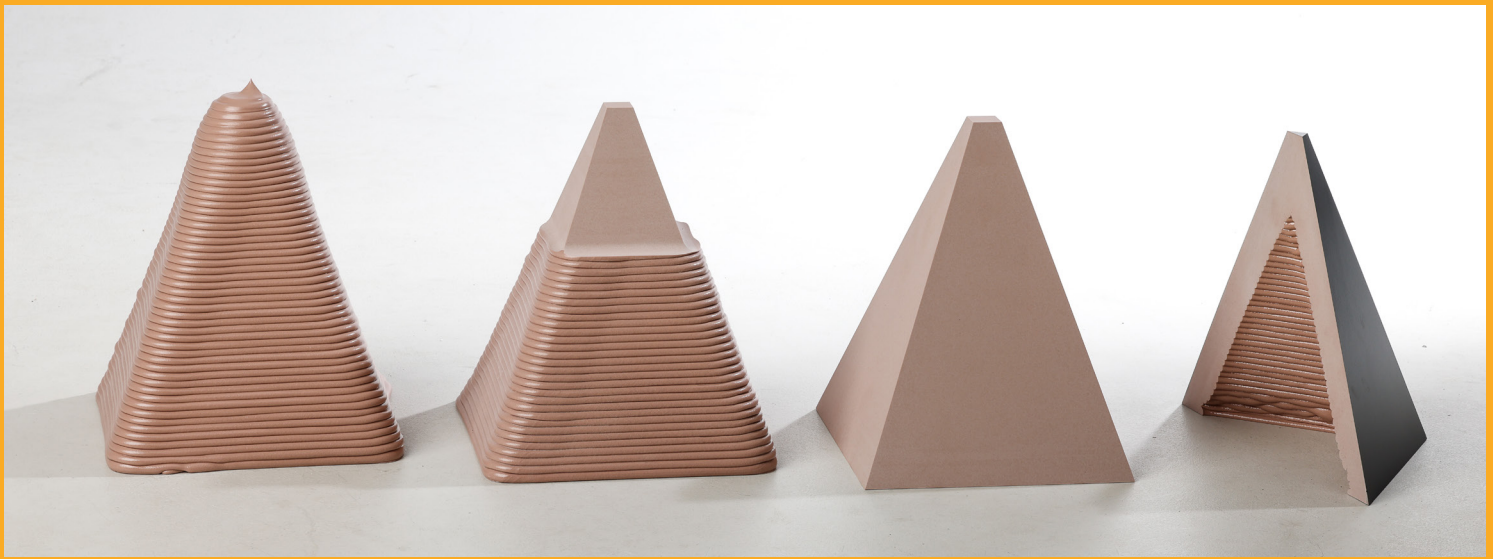
because of near-net shape construction



100 %

surface quality

easy to paint and no bonding lines



SikaBiresin[®] MC80

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Already in the concept and design phase, SikaBiresin[®] MC80 is used for Additive Manufacturing. With the help of the CAD data, a near-net shape and dimensionally stable 3D polyurethane pre-model is built directly. The finished model is created by CNC milling with the highest precision and surface quality. This sustainable solution offers significant material and cost savings and eliminates the bonding effort from conventional block bonding, reduces milling times and additionally, the models are created without bonding joints, which improves the quality of their design.

AREAS OF APPLICATION	PRODUCT BENEFITS	PROCESS BENEFITS
<ul style="list-style-type: none"> ■ Manufacture of design and prototype models ■ Manufacture of styling, cubing and master models ■ Manufacture of simple molds for small series 	<ul style="list-style-type: none"> ■ High quality surface – no bonding lines ■ Low dust at good milling behaviour ■ High compressive strength and edge stability ■ Low CTE for high dimensional stability 	<ul style="list-style-type: none"> ■ Direct and easy use of CAD data ■ Fast production of models and simple molds (no cutting, no bonding) ■ Less material and less wastage ■ No lost molds necessary

PHYSICAL DATA (APPROX. VALUES)		
Density	ISO 845	0.85 g/cm ³
Shore-hardness	ISO 868	D 77
Compressive strength	ISO 604	60 MPa
Linear thermal expansion coefficient α_T	ISO 11359	$55 \cdot 10^{-6} \text{ K}^{-1}$
Glass transition temperature (T _g)	ISO 11359	70 °C

Our most current General Sales Conditions shall apply. Consult the Product Data Sheet prior to any use and processing.

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