SIKABIRESIN® TP

SIKA THERMOPLASTIC COMPOUNDS FOR INDUSTRIAL AM

20.06.24 / ROY Z'ROTZ

BUILDING TRUST

WE ARE SIKA

BUILDING TRUST

SIKA
BEYOND THE EXPECTED

4 Sika in a nutshell

14 Applications

20 Event

BUILDING TRUST

SIKA IN A NUTSHELL

BUILDING TRUST

WHAT WE STAND FOR
SIKA'S POSITIONING

BUILDING TRUST BEYOND THE EXPECTED

Sika is a specialty chemicals company with a leading position in the development and production of systems and products for flooring sealing, bonding, damping, reinforcing, and protecting in the building sector and motor vehicle industry.

SIKA AT A GLANCE

33,000	EMPLOYEES	4	NEW/EXPANDED FACTORIES IN 2023
103	COUNTRIES	108	NEW PATENTS IN 2023
400+	FACTORIES WORLDWIDE	2+[1]	ACQUISITION IN 2023
		11.2 BN	NET SALES IN 2023 (IN CHF)

[1] Besides the two acquisitions, Sika has signed an agreement to acquire Chema, Peru. The closing of the acquisition is targeted for 2024.

TARGET MARKETS – FOCUS ON ATTRACTIVE MARKETS
CROSS-SELLING, LIFE-CYCLE MANAGEMENT, ONE STRONG BRAND

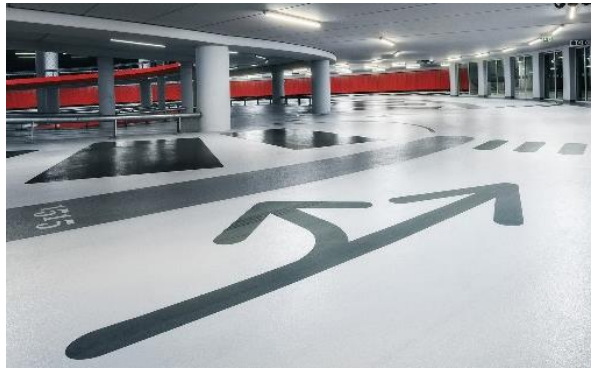
Concrete

Waterproofing

Roofing

Building Finishing

Flooring & Coating



Sealing & Bonding

Engineered Refurbishment

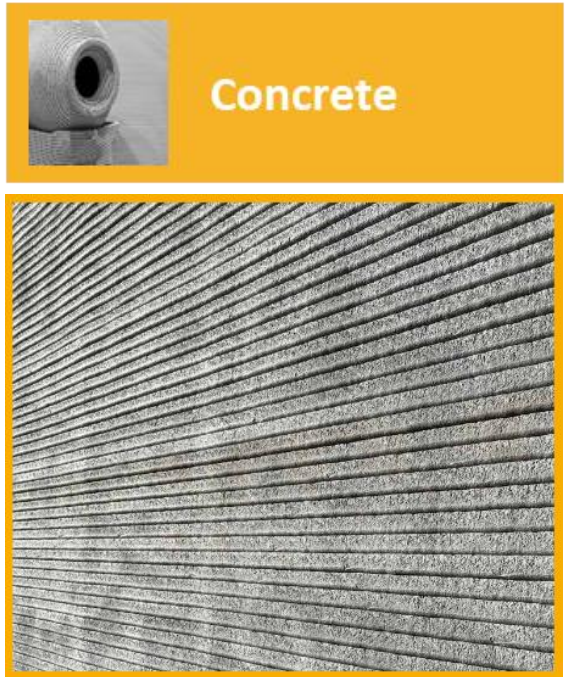
Industry

ADDITIVE MANUFACTURING AT SIKA

OVERVIEW

3D-PRINTING AT SIKA

Concrete



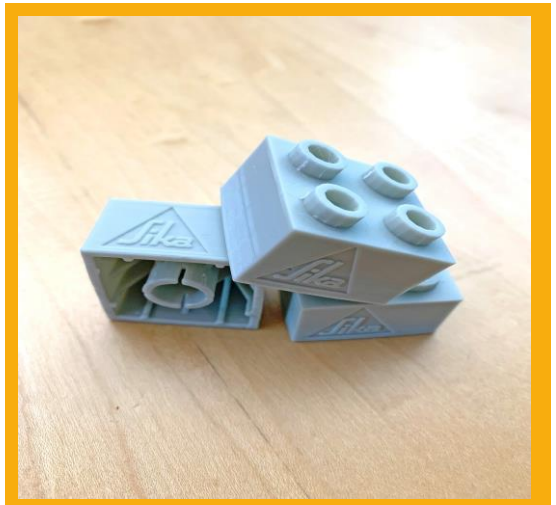
Sikacrete®-733 3D
ONE-COMPONENT MICRO-CONCRETE FOR 3D PRINTING

- Long Open Time
- Reduced CO_2 Footprint

Thermoplastic Materials

SikaBiresin® TP
THERMOPLASTISCHE COMPOUNDS FÜR DIE ADDITIVE FERTIGUNG

Photopolymer



Sika UV-Photopolymer

2K-PUR

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® TP

THERMOPLASTIC COMPOUNDS FOR ADDITIVE MANUFACTURING

BUILDING TRUST

RESEARCH & DEVELOPMENT
THE BACKBONE OF INNOVATIVE SOLUTIONS

60 YEARS OF ROOFING EXCELLENCE

Sarnafil®

BUILDING TRUST

Sika®

SIKABIRESIN® TP
OVERVIEW

Product Overview	Material
SikaBiresin® TP100-199	PP
SikaBiresin® TP200-299	PE
SikaBiresin® TP300-399	PVC
SikaBiresin® TP400-499	SPECIAL

SikaBiresin® TP

Overview application fields:

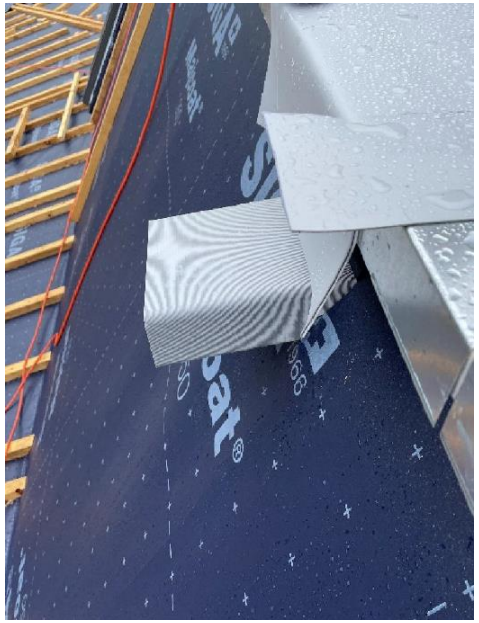
- Outdoor applications
- Design and Prototype models
- Individual tools and series production
- And much more…

Technical Information	Norm	Tolerance	SikaBiresin® TP100	SikaBiresin® TP101	SikaBiresin® TP102	SikaBiresin® TP103	SikaBiresin® TP200
MFR (190°C, 2.16 kg)	EN ISO 1133-1	+/- 0.5	5.5 g/10 min				2.8 g/10 min
MFR (230°C, 2.16 kg)	EN ISO 1133-1	+/- 0.5		8.5 g/10 min	2.0 g/10 min	1.3 g/10 min	
Density (23°C, Method A)	EN ISO 1183-1	+/- 0.3	1.20 g/cm3	1.17 g/cm3	1.18 g/cm3	1.14 g/cm3	1.06 g/cm3
E-Modulus	EN ISO 527-2		≥ 160 N/mm2	≥ 970 N/mm2	≥ 2000 N/mm2	≥ 3200 N/mm2	≥ 850 N/mm2
Shore Hardness (Shore D)	ISO 868	+/- 3	37	61	72	74	60
Thermal conductivity	ISO 22007-4	+/- 0.05	0.30 W/mK	0.30 W/mK	0.37 W/mK	0.90 W/mK	0.40 W/mK
Printing Temperature			190 – 210 °C	200 – 230 °C	210 – 240 °C	220 – 250 °C	180 – 210 °C
Colour			Grey	Grey	Grey	Anthrazit	Black

APPLICATIONS

SIKA 3D-PRINTED PARTS

SIKABIRESIN® TP



- Customer-specific support
- Weldable
- Global Network
- Experience
- Durability

APPLICATIONS
SIKABIRESIN® TP

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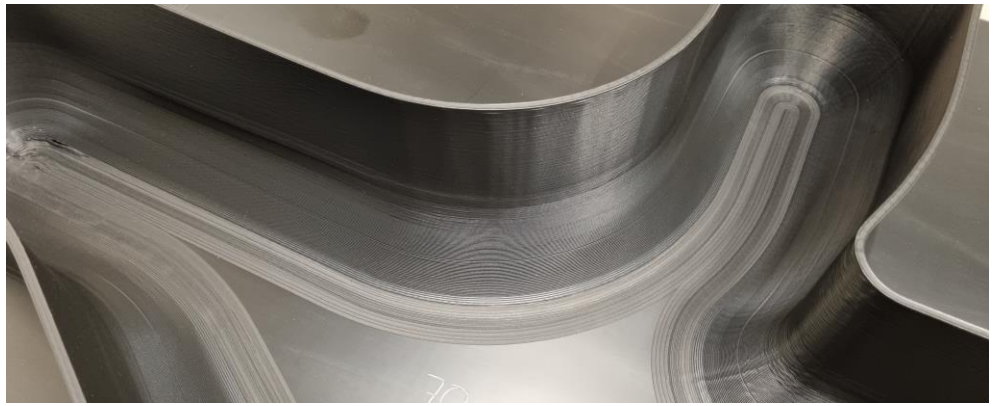
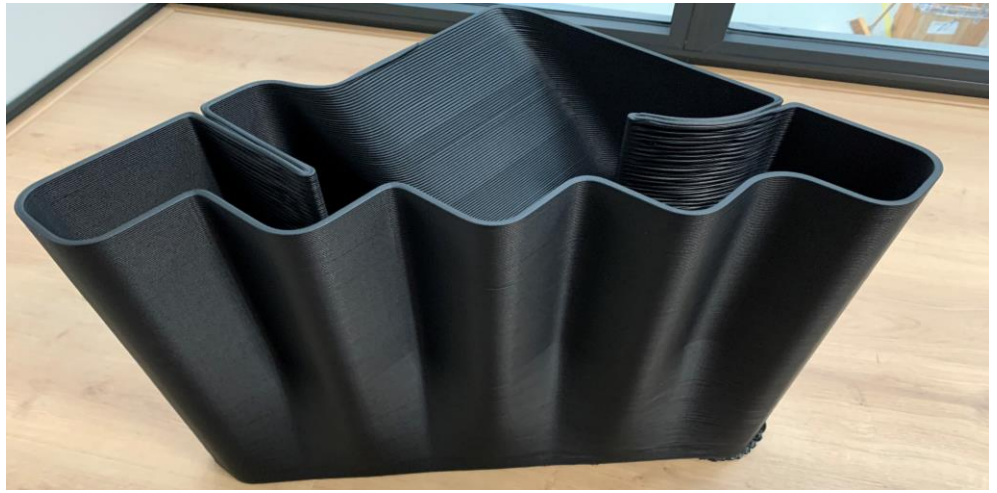
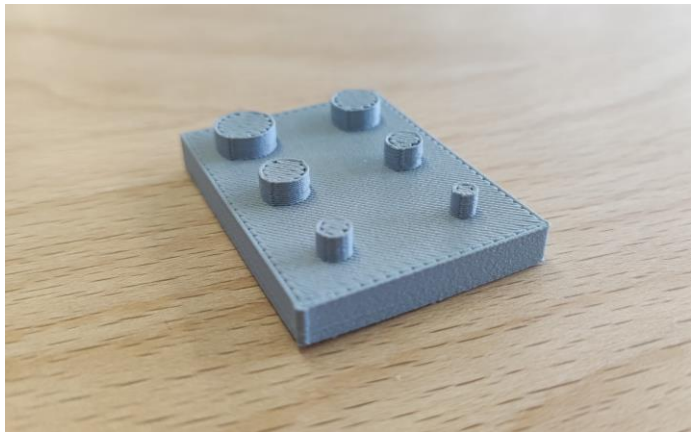
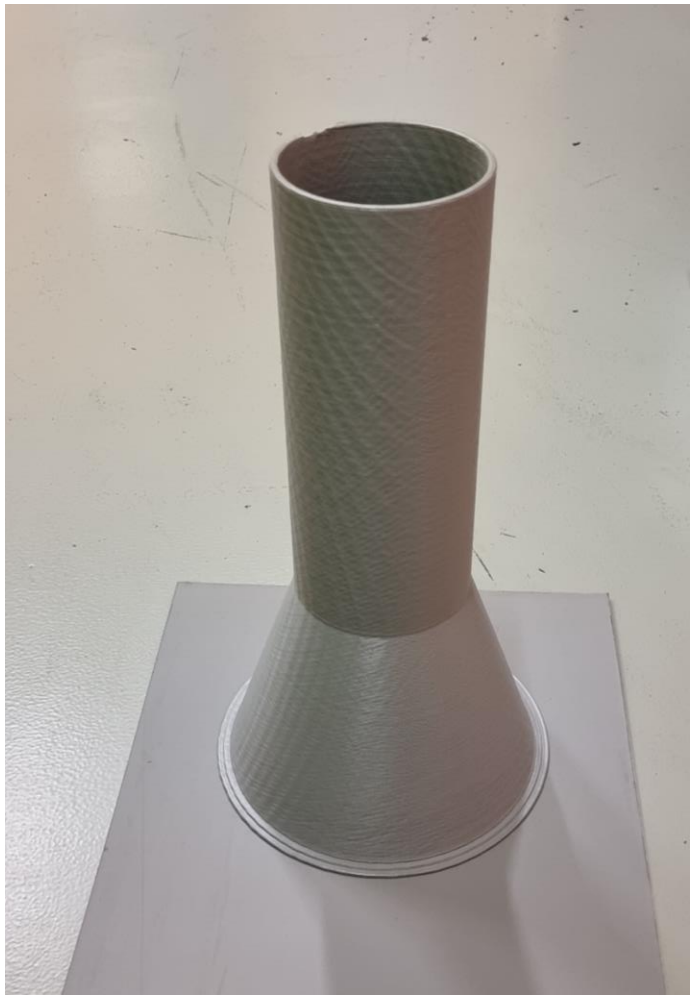
SIKABIRESIN® TP





APPLICATIONS
SIKABIRESIN® TP





BUILDING TRUST

EVENT

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EVENT
FORMNEXT FRANKFURT 2024

SIKA SOLUTIONS FOR 3D PRINTING:

- Thermoplastics (SikaBiresin® TP)
- 2K-PUR (SikaBiresin® MC)
- Concrete (Sikacrete 3D)

Formnext Frankfurt 2024
19. – 22.11.2024

THANK YOU FOR YOUR ATTENTION

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