



SikaBiresin[®] TP

THERMOPLASTIC COMPOUNDS FOR ADDITIVE MANUFACTURING

INTRODUCTION

SIKA'S COMPREHENSIVE THERMOPLASTIC COMPOUND PORTFOLIO comprises of an array of various materials such as PP, PE, TPO, EVA, PVC. Additionally, Sika specializes in customer specific compounding to precisely align with your application requirements, thereby offering tailored solutions to meet your unique needs.

With over 60 years of expertise in thermoplastic membrane technology for roofing, our product range is engineered to provide extended longevity while offering comprehensive protection to your building against external environmental factors. Furthermore, our materials effectively withstand a spectrum of challenges, including the persistent presence of standing water and other factors such as radiation, atmospheric pollutants, wind, hail, snow, and the proliferation of biological organisms. Collaborating with Sika thermoplastic materials means prioritizing sustainable and durable solutions, thereby on a higher-yield material choice.

WHY CHOOSE COMPOUNDS FROM SIKA

Water Resistance



Sustainability



Durability



Experience



SikaBiresin® TP



Flexible to Stiff



Flame Retardant



UV Protection



Different Colours

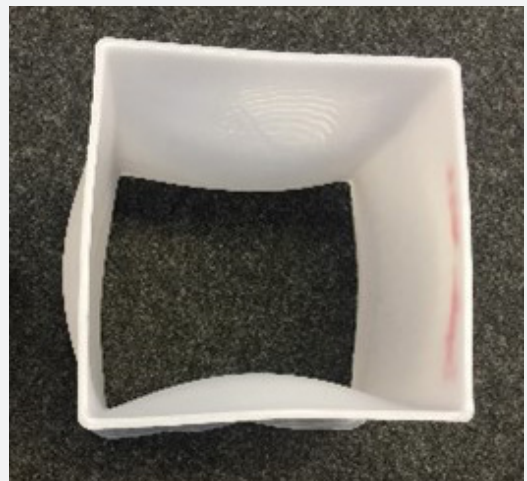
SikaBiresin® TP

PRODUCT BENEFITS

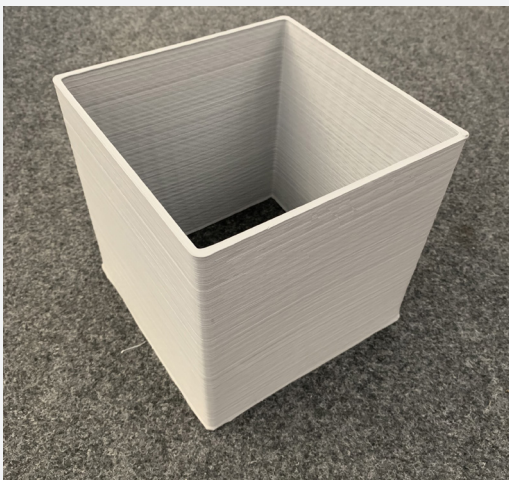
A VERSATILE SOLUTION that stands as a testament to innovation and performance excellence. SikaBiresin® TP presents an array of remarkable benefits, making it the ideal choice for a wide range of applications.

From its high water resistance to Sika's unwavering commitment to sustainability, durability, and decades of valuable industry experience, SikaBiresin® TP redefines what's possible in a versatile material. Whether your project requires flexibility or stiffness, demands flame retardant properties, UV protection, or a splash of vibrant color, SikaBiresin® TP empowers you to achieve outstanding results.

NORMAL PP



SikaBiresin® TP



SikaBiresin[®] TP

PRODUCT OVERVIEW

SUITABLE FOR A WIDE RANGE of applications, whether it's outdoor projects, the creation of design and prototype models, manufacturing single molds, series production, or countless other possibilities.

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

Technical Information	Norm	Tolerance	SikaBiresin [®] TP100
MFR (190°C, 2.16 kg)	EN ISO 1133-1	+/- 0.5	5.5 g/10 min
MFR (230°C, 2.16 kg)	EN ISO 1133-1	+/- 0.5	
Density (23°C, Method A)	EN ISO 1183-1	+/- 0.3	1.20 g/cm ³
E-Modulus	EN ISO 527-2		≥ 160 N/mm ²
Shore Hardness (Shore D)	ISO 868	+/- 3	37
Thermal conductivity	ISO 22007-4	+/- 0.05	0.30 W/mK
Printing Temperature			190 – 210 °C
Colour			Grey

From tackling challenging outdoor projects to enabling the creation of intricate design and prototype models, SikaBiresin® TP seamlessly transitions into the demanding area of manufacturing single molds and supporting high-volume series production.

For **outdoor applications**, SikaBiresin® TP excels as a robust, weather-resistant choice, ensuring that your projects withstand the elements and endure for the long term.

For **design and prototype models**, SikaBiresin® TP becomes a canvas for innovation. Its precision and malleability empower designers and engineers to transform their concepts into tangible realities, facilitating rapid prototyping and iterative development processes.

When it comes to **manufacturing single molds**, SikaBiresin® TP offers exceptional performance characteristics ensuring that even the most intricate and complex molds are crafted with precision and reliability. The result is superior craftsmanship and consistently high-quality output.

For **series production**, SikaBiresin® TP rises to the occasion, offering the consistency and efficiency required for large-scale manufacturing. Its reliability and longevity make it a cost-effective choice, ultimately contributing to the success and profitability of your production processes.

Whether you're seeking a trusted solution for a specific project or looking to explore new horizons, SikaBiresin® TP stands ready to meet the challenge and exceed your expectations.

SikaBiresin® TP101	SikaBiresin® TP102	SikaBiresin® TP103	SikaBiresin® TP200
			2.8 g/10 min
8.5 g/10 min	2.0 g/10 min	1.3 g/10 min	
1.17 g/cm3	1.18 g/cm3	1.14 g/cm3	1.06 g/cm3
≥ 970 N/mm2	≥ 2000 N/mm2	≥ 3200 N/mm2	≥ 850 N/mm2
61	72	74	60
0.30 W/mK	0.37 W/mK	0.90 W/mK	0.40 W/mK
200 – 230 °C	210 – 240 °C	220 – 250 °C	180 – 210 °C
Grey	Grey	Anthrazit	Black

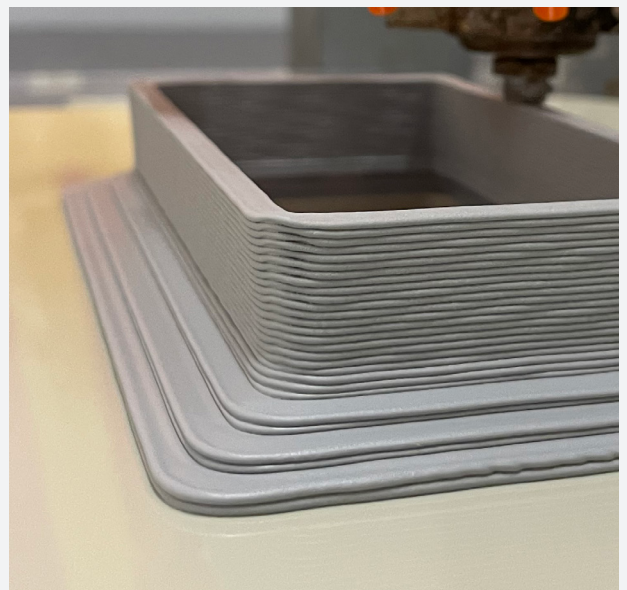
SikaBiresin® TP

PRODUCT OVERVIEW

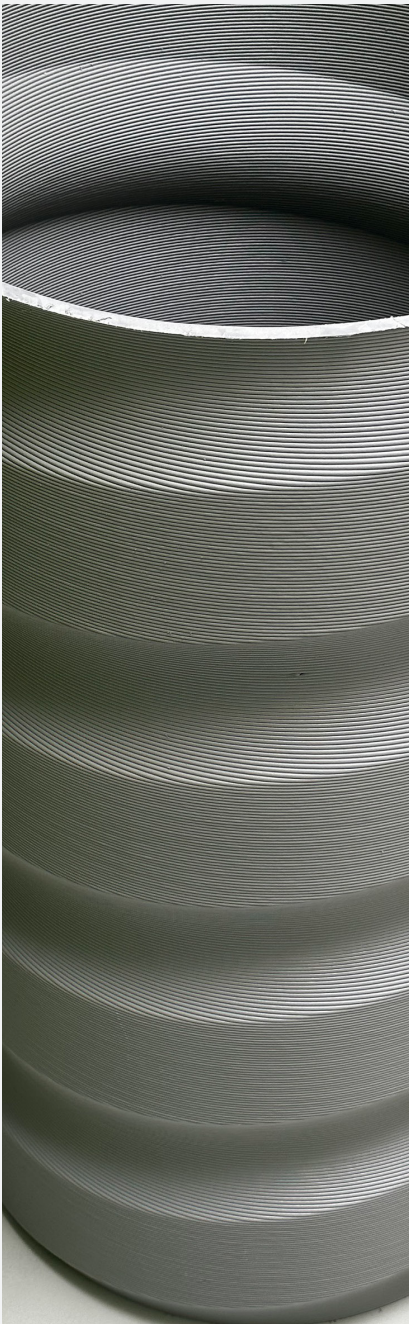
SikaBiresin® TP100



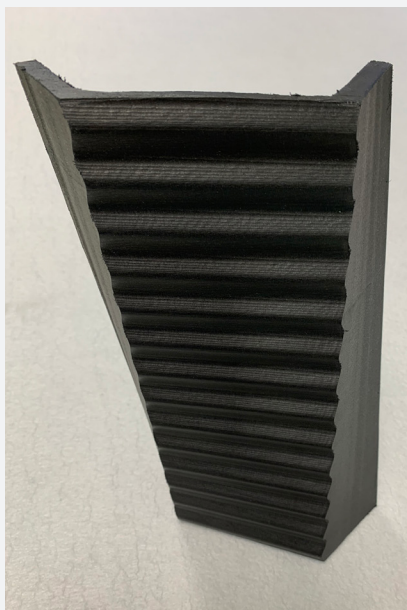
SikaBiresin® TP101



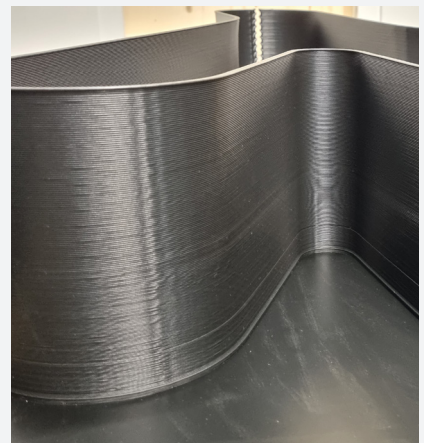
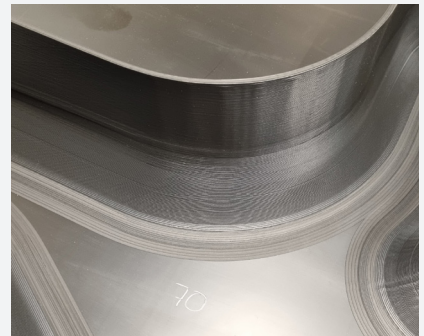
SikaBiresin® TP102



SikaBiresin® TP103



SikaBiresin® TP200

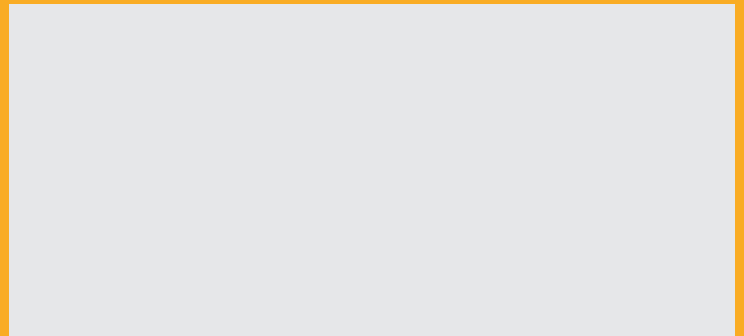


GLOBAL BUT LOCAL PARTNERSHIP



WHO WE ARE

Sika AG, Switzerland, is a globally active specialty chemicals company. Sika supplies the building and construction industry as well as manufacturing industries (automotive, bus, truck, rail, solar and wind power plants, facades). Sika is a leader in processing materials used in sealing, bonding, damping, reinforcing and protecting loadbearing structures. Sika's product lines feature highquality concrete admixtures, specialty mortars, sealants and adhesives, damping and reinforcing materials, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.



FOR MORE INFORMATION

www.sika.com/advanced-resins

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



Sika Deutschland GmbH
Advanced Resins
Stuttgarter Straße 139
72574 Bad Urach
Deutschland

Phone: +49 (0) 7125 940 7692
E-mail: verkauf.industry@de.sika.com
www.sika.de/advanced-resins

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