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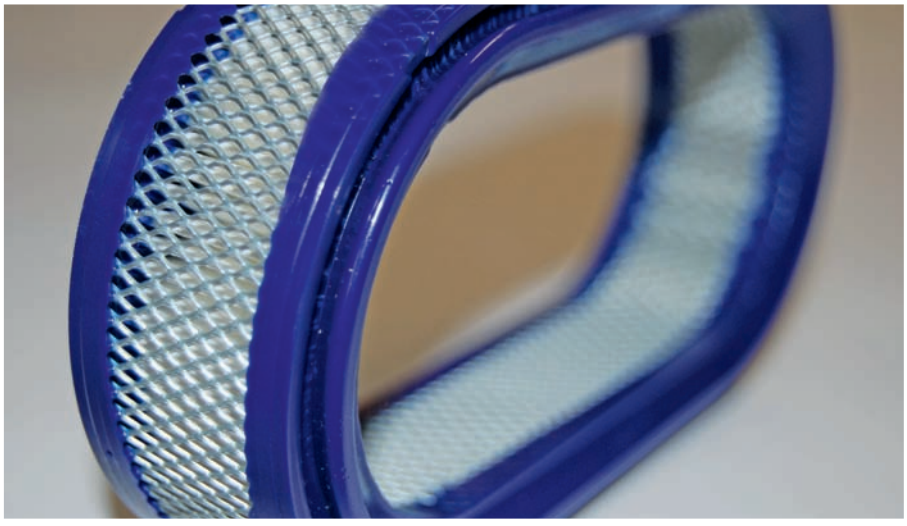
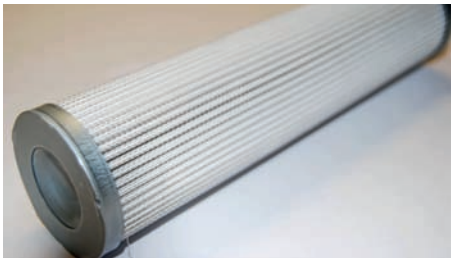
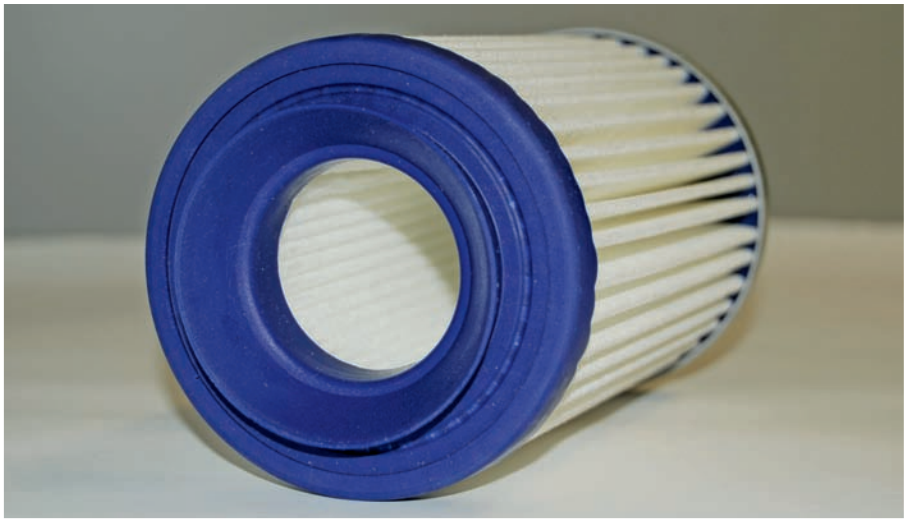
RAKU-PUR® Filter systems
Polyurethane casting systems for the filter industry

Improved productivity and technical advantages:
Time and cost saving technology.







Advantages in comparison to epoxy resins:

- High productivity due to quick curing <15 min compared to 1–1,5 h
- Curing at room temperature
- Better working-place safety due to physiological harmless raw materials
- Higher resistance against vibration impact due to variable hardness
- Less embrittlement due to resistance against low temperatures (below 0°C)

Applications:

- Oilfilter
- Hydraulic filter
- Industry filter
- Filtration of drinking water
- Filter applicable for foodstuff-industry

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Selection of products for the filter industry

	RAKU-PUR® for oil and hydraulic filters	RAKU-PUR® for industry and particle filter	RAKU-PUR® for filtration of fluids	RAKU-PUR® for filtration of foodstuff
Special requirements	» High chemical resistance (e.g. against mineral oils, HFC, HEES, HETG etc.)	» High chemical resistance (e.g. to diluted acids and bases)	» Good penetration of the filter material e.g. cellulose-fleece, PVP-hollow fibres	» No migration of harmful compounds in contact with foodstuff
Main properties of RAKU-PUR products	» Wide temperature-range of application (– 40 °C to 100 °C, for a limited time up to 140 °C) » High mechanical resistance » Good adhesion to end plate (e.g. polyamide, galvanized or tinplated steel) » Hardness Shore D 75–90	» Hardness adjustable from elastic over tough-elastic to thermosetting (Shore A 45 – Shore D 85) » High mechanical resistance » High tear strength	» Tough-rigid (Shore D 75 – 85) » Low viscosity, therefore good fluidity and good penetration of filter-media	» Hardness adjustable from elastic over tough-elastic to thermosetting (Shore A 45 – Shore D 85) » High mechanical resistance » High tear strength
Special properties	» As special version with delayed thixotropy much faster processing: e.g. casting of both end-plates within <1 min possible	» Suitable for potting in moulds and bonding of end plates	» All raw materials are positively listed according to the German “Leitlinie zur hygienischen Beurteilung von organischen Beschichtungen in Kontakt mit Trinkwasser” (Leitlinie des Bundesumweltamts)	» Harmless in contact to food-stuff according to German ”Bedarfsgegenständeverordnung” (ISEGA)
Applications	» Oil filter » Hydraulic filter » Suction filter » Pressure filter » Partial flow filter » Oil-/ water separators	» Filtration of dust in industry machines: e.g. saw dust or dust from metal, stone, pigments, plastics » Flue gas cleaning » Filter for air conditions » Filter for vacuum cleaner » Exhaust cleaning in the chemical industry » Overspray filtration in painting plants	» Drinking water filtration » Wastewater filtration » Decarbonisation filter » Membrane filter » MBR-Bio-reactors » Filter for the filtration of fluid foodstuffs e.g. wine, beer, juice	» Filtration of dry foodstuff e.g. » Flour » Sugar » Custard powder
Suggested products (selection)	» RAKU-PUR 50-2404 » RAKU-PUR 80-2434 » RAKU-PUR 80-2434-1 » RAKU-PUR 80-2464 (delayed thixotropy)	» RAKU-PUR 80-2613 » RAKU-PUR 80-2434 » RAKU-PUR 80-2624	» RAKU-PUR 80-H 20/10-3 » RAKU-PUR 80-H 20/12-4	» RAKU-PUR 80-H 20/3-3 » RAKU-PUR 80-H 20/8-6 » RAKU-PUR 80-2624
Advantages PU in comparison to EP	» Less time needed: higher productivity due to fast reaction and short curing times » Less embrittlement » Better working-place safety due to physiological harmless raw materials			

Headquarters
RAMPF Giessharze GmbH & Co. KG
Albstraße 37
D-72661 Grafenberg

T +49 (0) 7123 9342-0
F +49 (0) 7123 9342-2444
E info@rampf-giessharze.de
www.rampf-giessharze.de

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