

Key Properties

- Can be cast in thick layers and large volumes
- Low exothermic even with thick layers
- Superior interlayer adhesion
- Easily workable
- Can be filled additionally

Applications

- Backing casting of models, molds, negatives and general support aids
- Direct casting of foundry patterns
- Jigs

Processing Properties

		Unit	PC-3414	PH-3915
Color	visual		beige	amber
Mix ratio		pbw	100	20
Mix ratio		pbv	100	29
Density	ISO 1183	g/cm ³	ca. 1.79	ca. 1.24
Viscosity at 25 °C	DIN 53019-1	mPa·s	30,000 - 50,000	150 - 200

		Unit	PC-3414 / PH-3915
Mix viscosity at 25 °C	DIN 53019-1	mPa·s	2,000 - 3,000
Pot life at 25 °C	1000 ml	min	60 - 75
Max. layer thickness		mm	100
Demold time		h	14

Cured / Mechanical Properties

		Unit	PC-3414 / PH-3915 7 days at RT or 14h at 40°C
Cure			
Color		visual	beige
Density	ISO 1183	g/cm ³	ca. 1.70
Hardness	ISO 868	Shore D	80 - 85
Deflection temperature, HDT	ISO 75	°C	50 - 55
Compressive strength	ISO 604	MPa	80 - 85
Compressive modulus	ISO 604	MPa	5,300 - 5,800
Flexural strength	ISO 178	MPa	45 - 50
Flexural modulus	ISO 178	MPa	6,300 - 6,800
Linear shrinkage*		mm/m	ca. 1.40

*measured on maximum layer thickness as stated above



Processing

The processing temperature and material temperature should be between 20-25°C.

The A component needs to be stirred well before use as some fillers might be prone to sedimentation.

Mix the components thoroughly in the ratio indicated, avoiding any air entrapment.

Degassing and / or post curing will improve final properties.

Packaging

RAKU® TOOL PC-3414	10 kg
RAKU® TOOL PH-3915	2,0 kg

Storage

In temperature controlled environments (20°C - 25°C) the original containers can be stored for at least 6 months. Both components are moisture sensitive and containers therefore need to be kept tightly sealed. The storage temperature for both components should not be below 20°C as at 15°C partial crystallization might occur.

Handling precautions

Good workplace ventilation is to be ensured during processing. At the same time, the employer's liability insurance association's industrial hygiene safety regulations regarding the handling of reaction resins and their hardeners are to be observed. Please take heed of the appropriate safety data sheets.