

Casting Polyurethanes Selection Guide

For data sheets click on product name

Product	Mixing ratio A (pbw)	Mixing ratio B (pbw)	Mixing ratio C (pbw)	Properties	Application	Pot Life (1 Kg) (mins)	Colour	Density (g/cm ³)	Shore Hardness (ISO 868)	Compressive strength (ISO 604) (MPa)	Compressive modulus (ISO 604) (MPa)	Deflection temperature (ISO 75) (°C)
RenCast® FC 52 Isocyanate / FC 52 Polyol / DT 082	100	100	300	Three part system for quick and accurate castings	Moulds, holding fixtures, foundry patterns, replicas, prototypes	6-7	Beige	1.6-1.7	75-80 D	45-50	2500	85-90
RenCast® FC 53 Isocyanate / FC 53 Polyol / DT 082	100	100	300	Three part system for quick accurate reproduction of finely detailed surfaces	Prototypes, scale models, templat, rapid impressions, negatives	4-5	Beige	1.6-1.7	75-80 D	45-50	2500	85-90
RenCast® FC 54 Isocyanate / FC 54 Polyol	100	100		Two part system, castable up to 100mm	Replcias, prototypes, foundry models, holding templates	5-7	Blue	1.6	85-90 D	65-70	3000	85-90
XD 4566 A / XD 4566 B	100	100		Two part system for quick accurate reproduction with low viscosity	Small prototypes and models Negatives and replicas	5-6	Amber	1.08-1.12	66 - 68 D	30-32	600	64
RenCast® 5146 Isocyanate - RenCast 5146 Polyol - Filler DT 082	80 :	100	330	Mass casting system used in combination with Filler DT 082 Low exotherm and minimal shrinkage, even in thick sections	Sheet metal forming tools for steel and aluminium, Negative moulds and tooling fixtures, Large volume moulds for the ceramics industry	30-40 (3kg)	Light Beige	1.6	85 D	90-95	9500	250
RenCast® 6405 / Ren® 6405	100	100		Rigid ABS like	Prototypes	20	Off-white					
RenCast® 6444 / Ren® 6444	100	60		Tough abrasion resistant	High wear resistance tough parts such as foundry tooling	27	Amber					