

TECHNICAL DATA SHEET

MB CAST 107 ISO- MB CAST 41 POL

two components polyurethane system

APPLICATION

component A

component B

cold cure rigid elastomer

Polyol

Prepolymer

MB CAST 41 POL

MB CAST 107 ISO

Component A

Component B

WORKING RATIO by volume

100

100

WORKING RATIO by weight

100

108

Physical properties

Viscosity	cPs	100 ± 20 at 25°C	60 ± 5 at 25°C
Density	g/cm ³	0,98 at 25°C	1,08 at 25°C
Room temperature, aspect		liquid	liquid
Stability	months	6	6

dry room close drum

Environmental humidity must be as low as possible. Good ventilation (room size) is essential. Wear safety glasses, long sleeves and rubber gloves to minimize contamination risk. The physical life of the system depends on how you use it. Shelf life of the products is drastically reduced after opening. Both the components are liquid until -10°C.

Processing conditions

component A	°C	25 ± 5
component B	°C	25 ± 5
Mould temperature	°C	25 ± 5
Pot Life	sec	> 270
Final density	g/cm ³	1,03
Demoulding time	minutes	45 - 60

Physical properties

Hardness	ShD	65 - 70	
Tensile strength	Mpa	27,3	ISO 527:1995 part 3
Elongation	%	5,5	ISO 527:2012 part 1
Flexural strength	kPa	0,065x10 ⁶	ISO 1209:2007 Part 2
Flexural modulus	kPa	8,7x10 ⁶	ISO 1209:2007 Part 2
Compressive strength	MPa	28,3	ISO 604:2003
Maximum load deformation	%	12,8	ISO 604:2003
deformation at break	%	> 50	ISO 604:2003

Further information

Mix well the components before and during use.

Vacuum degassing is recommended but not indispensable in order to avoid the mixing bubbles in the final articles.

Mix the components together, in the right mixing ratio, for, at least, 1 minute making sure that you scrape the sides and the bottom of the mixing container several times.

The system cure with negligible shrinkage.

For best results, pour your mixture in a single spot at the lowest point of the containment field.

Let the mixture seek its level up and over the model. A uniform flow will help to minimize entrapped air bubbles. A liberal coat of release agent should be applied onto all surfaces that will be in touch with the mixture.

The type of release agent to use depends on the material being cast.

The proper release agent for wax, liquid rubber or thermosetting materials is a special spray release.