

U RESIN OC25A



U RESIN OC25A is a two component, water clear polyurethane that cures at room temperature to product a 25 Shore A elastomer. This material when cured at 25°C will take longer than 24 hours to reach 25 Shore A. The material can be cured for 2-4 hours at 35-40°C to speed up the cure.

The material can be used in a number of diverse applications, from special effects, badges and any product requiring a clear protective coating.

PROFILE:

	PART A	PART B	MIXED
Colour	Water Clear	Water Clear	
Mix Ration (by Weight)	100	275	
Pot Life @ 25°C (mins)			15-20
Temperature (°C)	20-30	20-30	
Demould Time @ 25°C (hours)			24-36
Post Cure Time @ 25°C (days)			7
Viscosity at 25°C (cps)	650	300	
Specific Gravity at 25°C	1.02	1.05	
Hardness (Shore A)			25 ± 5
Tensile Strength (MPa)			1
Elongation (%)			277
Angle Tear Strength (kN/m)			4.7

Properties presented below are to be used as a guise and not intended for specification purposes.

MOULDING MATERIALS:

Any of the U RESIN OC products can be poured into a urethane mould that has been prepared with an appropriate release agent. The U RESIN OC products can be used in silicone moulding materials but they must be addition-cured silicones. Contact U RESIN about specific grades of silicones that are suitable. Post curing the U RESIN OC product at 50-60°C for 6-8 hours can improve the surface finish.

NOTE: Both Part A and Part B components are moisture sensitive. Once opened, containers should be purged with nitrogen, if they are to be stored for a period of time. Part A should be clear, if it is cloudy, warm to 40°C for 1-2 hours until it is clear.

PROCESSING PROCEDURE:

U RESIN OC25A products can be processed by hand or machine dispensing equipment. Do not cast this material when the Part A or Part B temperature is below 20°C as it will take too long to cure. OC25A must be cured in a room where the temperature does not drop 20°C. This is critical in winter.

1. Weight the amount of Part A into a container and degas at -95kPa of vacuum until excessive foaming stops.
2. Part B should be added to Part A and mixed thoroughly. Be careful not to entrap air whilst mixing. (It can be advised that the mixed product can be degassed at -95kPa of vacuum if required.)
3. Pour the mixed materials into moulds that have been prepared with a suitable release agent if casting de-mouldable parts.
4. Allow casting to cure before de-moulding.

NOTE: Part B must be completely stirred mechanically before use. In colder months it may also be necessary to slightly warm the Part B (40°C) as it may solidify.

HANDLING PRECAUTIONS:

U RESIN OC25A should be used in well-ventilated area. Avoid breathing in vapours and protect skin and eyes from contact.

In case of skin contact remove excess, wash with soap and water. For eye contact, immediately flush with water for at least 15 minutes. Call a physician. If nose, throat or lungs become irritated from breathing in vapours, remove exposed person to fresh air. Call a physician.