

STAR Technology

FORMULATING • INNOVATIVE • SOLUTIONS

720-02A

Urethane Potting and Encapsulating

DESCRIPTIONS

STAR Technology 720-02A is a flexible low durometer hardness urethane potting and encapsulating compound. Typical applications for 720-02A would be the encapsulation of shock sensitive instruments, mold making and concrete mold blanket production. The gel time allows for a relatively quick assembly turn over rate. Typical applications for 720-02A would be the potting and encapsulating of sensitive electronic components and assemblies.

Note: Urethane compounds are moisture sensitive and must be protected from moisture contamination. Moisture can cause foaming and cure inhibition of the compound.

Typical Properties

	<u>TESTING METHOD</u>	<u>VALUE</u>
Part A:		
Color		Clear
Viscosity	ASTM D2393	~1300 cps
Specific Gravity	ASTM D1475	1.02
Part B:		
Color		Amber
Viscosity	ASTM D2393	~2000cps
Specific Gravity	ASTM D1475	1.24
Mixed:		
Color		Amber
Viscosity	ASTM D2393	~1800cps
Specific Gravity	ASTM D 1475	1.14
Mix Ratio		100:100 by Volume 100:120 by Weight
Gel time (100 gm mass)	ASTM D2471	10 min.
*Gel time can be modified to suit application needs.		
Cure		24 Hours @ 23°C
*Elevated Temperature: Gel 1hour @ 23°C plus 4 hours @ 80°C		
Shore Hardness (A)	ASTM D2240	20
Tensile Strength (psi)	ASTM D638	162
Elongation	ASTM 638	400
Shrinkage (%)		.00178
CTE (in/in/°C)	ASTM D695	2.44E-5

To the best of our knowledge, the information contained herein is accurate. However, STAR TECHNOLOGY, Inc., does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. The information contained herein is considered typical properties and is not intended to be used as specifications for our products. This information is offered solely to assist purchaser in selecting the appropriate products for purchaser's own testing. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein and in the material safety data sheet, we cannot guarantee that these are the only hazards that exist. Repeated and prolonged exposure to epoxy resins can cause sensitization or other allergic responses.



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APPLICATION PROCEDURES

Carefully weigh out appropriate amounts of resin and hardener into a clean mixing container and thoroughly mix until all streaks and striations are gone. Scrape the sides and bottom frequently to ensure complete mixing.

CAUTION: Unmixed compound from the sides or bottom of the container can cause soft spots or uncured areas in the completed piece. To prevent this, transfer the entire mixed contents to a second clean container and remix for a short time before using.

PRECAUTIONS

For industrial use only. Keep away from children.

Refer to the Material Safety Data Sheets (MSDS forms) pertaining to this product before using.

Avoid contact with skin or eyes. In the event of an eye splash or contact, immediately flush with cold water for 15 minutes and contact a physician. If skin contact occurs, wash with mild soap and water. The wearing of safety glasses with side shields and impervious gloves is recommended.

RESIN AND HARDENER WARNING STATEMENT

May cause allergic skin reaction. Avoid all contact with skin, eyes, and clothing. Wash thoroughly after handling.

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