

# STAR Technology

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## ER3104

### Two Part Room Cure Epoxy

#### DESCRIPTION

Star Technology, Inc.'s Decoupage ER3104 high gloss coating is a two component 100% solid epoxy used for a high gloss and high build coating. While the most popular items coated are wooden clocks and plaques, other materials such as leather, cloth, ceramics, masonry, rocks, and flowers are among suitable items that may be coated.

ER3104 can also be used as a clear two part potting compound for encapsulating small to medium sized castings. ER3104 has excellent chemical and water resistance, along with resistance to most organic solvents.

Data contained herein are believed to be reliable. Fit-for-use testing should be conducted by each user.

#### APPLICATION TO THE SUBSTRATE

For best results, the surface to be coated should be lightly sanded to remove the rough areas. After sanding, the panel should be wiped with a damp cloth to remove the dust and then allowed to dry. Wood or other porous materials should be primed prior to the application of ER3104 high gloss coating. This may be done with a light coating of ER3104. If sanding the primer coating prior to the application of the decorative coating, the primer coat should be allowed to dry overnight. Mix equal volumes of Part A and Part B. The material must be thoroughly mixed together to obtain a properly cured coating. Pour the coating over the object and, if necessary, spread the coating with a brush to ensure complete coverage. The bubbles created during mixing can be broken by a propane torch or with forced hot air (Heat Gun). ER3104 high gloss coating of 10 to 20 mils thickness will dry to the touch in about 5 hours at room temperature (~25° C). Full hardness will be reached in 2 to 3 days.

#### TYPICAL PROPERTIES

	<u>TEST METHOD</u>	<u>VALUE</u>
Gel Time [200 Gram Mass at 75°F] (minutes):	ASTM D2471	20-30
Drying time (hours):		
Set to Touch:		4.5
Thru Dry:		8.0
Shore D Hardness:	ASTM D2240	
0-10 Seconds:		70-75
Ultimate Elongation (%):		40
HDT (°C):		
264 psi:		29
66 psi:		36
Part A:		
Viscosity (cps):	ASTM D2393	3000-6000
Part B:		
Viscosity (cps):	ASTM D2393	800 - 2000
Mix Ratio:		
By Volume:		100: 100
Shelf Life (months):		
Part A:		12
Part B:		12

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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### High Gloss Coating

#### 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.

For 1# and 2# kits, add all of Part B to Part A and mix thoroughly.

*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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