

# BCC Resins BC 8001

Polyurethane

BCC Products Inc.

## Message:

BCC Kwik Kast/Black is a two component, fast setting polyurethane reproduction plastic. BC 8001 sets to a demoldable hardness within 30 minutes @ 77°F. Uses include; tracing models core boxes, duplicating aids, patterns, prototypes, low temperature vacuum form tools, etc.

### Handling Properties:

BCC's Kwik Kast/Black is a fast-setting, two part casting system which requires careful preparation prior to mixing parts A and B. Because Kwik Kast/Black contains components of high density there will be some separation at the bottom of each container. Using a paint shaker, jiffy mixer, or mixing spatula, re-suspension of the ingredients is easily accomplished. Precaution should be taken to prevent any moisture contamination from containers or utensils. It is recommended that the work area be well ventilated and normal cleanliness and safety rules be observed. Avoid prolonged exposure to vapors and contact with skin.

### Preparation of Mold Surface:

Clean the surface from dust and possible presence of moisture. Apply BC 87 Parting Agent and polish to a uniform high gloss finish (usually 2-3 coats are recommended). For plaster or wood surfaces seal with PVC sealer to ensure complete absence of moisture, followed by 2-3 coats of 87 Parting Agent.

### Mixing and Pouring:

Although not necessary, best results are obtained by evacuation of each component under 29 inches of vacuum which removes entrapped air prior to blending the two components. Pour weighed or measured amounts of Part A & B into a separate dry container by pouring Part A into Part B. Mix with a spatula or mechanical stirrer for 30-40 seconds for quart size batches or 40-50 seconds for gallon batches while avoiding air entrapment. Immediately pour mixed resin uninterrupted from a convenient height above the mold cavity. Clean your mixing tools by rinsing in an alcohol type solvent. Larger masses (2 feet or more) may be built up with successive pours. Castings may be demolded within 30-60 minutes but should be properly supported while "green". Under normal conditions, maximum hardness or cure will be achieved in 12-18 hours.

General Information			
Features	Fast Cure		
	Good Dimensional Stability		
	Low Exotherm		
	Low to No Odor		
	Low Viscosity		
Uses	Modeling Material		
	Prototyping		
Appearance	Black		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.66	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.080	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	44.1	MPa	ASTM D638
Compressive Strength	62.7	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	80.6	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 1.0, Mix Ratio by Volume: 1.0		
Resin	Mix Ratio by Weight: 1.0, Mix Ratio by Volume: 1.0		
Pot Life (24°C)	5.0 to 6.0	min	
Thermoset Mix Viscosity	1500	cP	ASTM D2393
Demold Time (24°C)	30 to 45	min	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

