BCC Resins BC 8002

Polyurethane

BCC Products Inc.

Message:

BCC Kwik Kast II is an advanced fast cast polyurethane tooling system. BC 8002 exhibits exceptionally low viscosity, low odor and is color contrasted for uniform mix. It features low exotherm and minimal shrinkage. Kwik Kast II cures hard, yet more durable resulting in less brittle parts. Uses include; tracing models core boxes, duplicating aids, patterns, prototypes, low temperature vacuum form tools, etc.
Handling Properties:
BCC's Kwik Kast II is a fast-setting, two part casting system which requires careful preparation prior to mixing parts A and B. Because Kwik Kast II 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 60-90 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	Good Wear Resistance Low Exotherm Low Shrinkage Low to No Odor Low Viscosity		
Uses	Molds/Dies/Tools Prototyping		
Appearance	Grey		
Forms	Liquid		
Processing Method	Casting		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.62	g/cm³	ASTM D792
--	1.61	g/cm³	ASTM D1505
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)	46.2	MPa	ASTM D638

Compressive Strength	63.4	MPa	ASTM D695
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	81.7	°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	min	
Thermoset Mix Viscosity	1000	cP	ASTM D2393
Demold Time (24°C)	60 to 120	min	

Recommended distributors for this material

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