BCC Resins BC 8007

Polyurethane

BCC Products Inc.

Message:

BCC Lik-Wood is a low viscosity, quick setting, easy to use casting material. A model or tool cast from Lik-Wood will weigh 60% less than other filled urethane systems. Within 30 minutes after mixing and pouring, Lik-Wood is ready to be carved, sanded, filed, tapped, etc.. Its amazing wood-like characteristics make it ideal for light-weight backing of laminates and/or surface coats. Perfect for fast take offs, cores, engineering changes, temporary molds, patterns, models, prototypes, and bases for die models.
Handling Properties:
BCC's Lik-Wood is a fast-setting, two part casting system which requires careful preparation prior to mixing parts A and B. Because Lik-Wood contains components having very low density there will be some separation at the surface of the material in its 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 wood surfaces, 2-3 coats of a high quality sanding sealer is necessary. For plaster surfaces, seal with PVC sealer to ensure complete absence of moisture. For both wood and plaster surfaces, follow with 2-3 coats of 87 Parting Agent.
Mixing and Pouring:
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 to resist air bubble entrapment. 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	Durable Fast Cure Good Dimensional Stability Good Toughness Low Viscosity Machinable		
Uses	Modeling Material Molds/Dies/Tools		
Appearance	Pine		
Forms	Liquid		
Processing Method	Casting		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	0.638	g/cm³	ASTM D792
--	0.637	g/cm³	ASTM D1505
Molding Shrinkage - Flow	0.29	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	65		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	11.4	MPa	ASTM D638
Flexural Modulus	1180	MPa	ASTM D790
Flexural Strength	18.8	MPa	ASTM D790
Compressive Strength	21.0	MPa	ASTM D695
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	56.1	°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)	4.0 to 6.0	min	
Thermoset Mix Viscosity	1650	cP	ASTM D2393
Demold Time (24°C)	420 to 600	min	

Recommended distributors for this material

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