

BLUE CAST _ BC CR3A - For all LCD 3d printers

PRODUCT FEATURES

- Consistent casting quality as BlueCast standard
- Ash residual 0.00%
 - _ proprietary TGA at 750°C / 4 hrs without contact to air, in closed vessel
- Low cost
- Negligible shrinkage
- No primer needed
- Monomer based resin (*)
- High resolution
- Good strength
- Fast printing speed
- Very low odor
- Very low viscosity, no need to heat
- Chromacure® will tell you when postcure is done and pattern is ready to cast



CONS

- Has to be managed with individual protections because of presence of monomer
- Postcuring treatment require

Differently from other monomer based resin that requires complex and tricky treatments our BC Crea just requires to be washed after print and cured in to BC CURING LIQUID we supply. No hot water wash required, no boiling, no overnight curing.



PRINTING SETTINGS

Phrozen Shuffle

BURN IN LAYER NUMBERS OF LAYERS: 5 LAYER THICKNESS: 50u CURE TIME: 50 SEC WAIT BEFORE PRINT: 4 SEC WAIT AFTER PRINT: 0.5 SEC LIFT AFTER PRINT: 5 mm WAIT AFRER LIFT: 0.1 SEC

NORMAL LAYER LAYER THICKNESS: 50u CURE TIME: 11 SEC WAIT BEFORE PRINT: 1 SEC WAIT AFTER PRINT: 0.1 SEC LIFT AFTER PRINT: 4 mm WAIT AFRER LIFT: 0.1 SEC

MOTOR SPEED 200 u/SEC Heigh of slow section 1mm Speed of slow section 30u/SEC

- Phrozen Shuffle 2019

LAYER EIGHT – 0.05 mm
BOTTOM LAYER COUNT – 5n
EXPOSURE TIME – 8s
BOTTOM EXPOSURE TIME – 50s
LIGHT OFF DELAY – 7s
BOTTOM LIGHT OFF DELAY – 11s
BOTTOM LIFT DISTANCE – 5mm
LIFTING DISTANCE -5mm
BOTTOM LIFT SPEED – 50 mm/min
LIFTING SPEED – 80 mm/min
RETRACT SPEED – 100 mm/min

- Phrozen Shuffle 4K

BURN IN LAYER NUMBERS OF LAYERS: 5 LAYER THICKNESS: 30u CURE TIME: 50 SEC WAIT BEFORE PRINT: 5 SEC WAIT AFTER PRINT: 0.5 SEC LIFT AFTER PRINT: 5 mm WAIT AFRER LIFT: 0.1 SEC

NORMAL LAYER LAYER THICKNESS: 30u CURE TIME: 9 SEC WAIT BEFORE PRINT: 1.5 SEC WAIT AFTER PRINT: 0.1 SEC LIFT AFTER PRINT: 5 mm WAIT AFRER LIFT: 0.1 SEC

BOTTOM LAYER MOTOR SPEED 50 u/SEC MOTOR SPEED 120 u/SEC



Phrozen Sonic - Sonic / Mini

BURN IN LAYER NUMBERS OF LAYERS: 5 LAYER THICKNESS: 50u CURE TIME: 40 SEC WAIT BEFORE PRINT: 5 SEC WAIT AFTER PRINT: 0.5 SEC LIFT AFTER PRINT: 5 mm WAIT AFRER LIFT: 0.1 SEC

NORMAL LAYER LAYER THICKNESS: 50u CURE TIME: 2.7 SEC WAIT BEFORE PRINT: 1 SEC WAIT AFTER PRINT: 0.1 SEC LIFT AFTER PRINT: 5 mm WAIT AFRER LIFT: 0.1 SEC

BOTTOM LAYER MOTOR SPEED 50 u/SEC MOTOR SPEED 120 u/SEC

Phrozen XL

BURN IN LAYER
NUMBERS OF LAYERS: 7
LAYER THICKNESS: 100u
CURE TIME: 70 SEC
WAIT BEFORE PRINT: 6 SEC
WAIT AFTER PRINT: 0.5 SEC
LIFT AFTER PRINT: 5 mm
WAIT AFRER LIFT: 0.1 SEC

NORMAL LAYER LAYER THICKNESS: 50u CURE TIME: 9 SEC WAIT BEFORE PRINT: 1.5 SEC WAIT AFTER PRINT: 0.1 SEC LIFT AFTER PRINT: 5 mm WAIT AFRER LIFT: 0.1 SEC

MOTOR SPEED 120 u/SEC Heigh of slow section 1mm Speed of slow section 30u/SEC

- Phrozen Sonic XL 4k

LAYER EIGHT – 0.03 mm
BOTTOM LAYER COUNT – 9n
EXPOSURE TIME – 3.7s
BOTTOM EXPOSURE TIME – 45s
LIGHT OFF DELAY – 8s
BOTTOM LIGHT OFF DELAY – 11s
BOTTOM LIFT DISTANCE – 9mm
LIFTING DISTANCE -5mm
BOTTOM LIFT SPEED – 50 mm/min
LIFTING SPEED – 80 mm/min
RETRACT SPEED – 80 mm/min

- Phrozen Sonic Mini 4k / Phrozen Sonic 4k

BURN IN LAYER NUMBERS OF LAYERS: 8 LAYER THICKNESS: 30u CURE TIME: 50 SEC WAIT BEFORE PRINT: 5 SEC WAIT AFTER PRINT: 0.5 SEC



LIFT AFTER PRINT: 5 mm WAIT AFRER LIFT: 0.1 SEC

NORMAL LAYER LAYER THICKNESS: 30u CURE TIME: 3.2 SEC WAIT BEFORE PRINT: 1.5 SEC WAIT AFTER PRINT: 0.1 SEC LIFT AFTER PRINT: 5 mm WAIT AFRER LIFT: 0.1 SEC

BOTTOM LAYER MOTOR SPEED 50 u/SEC MOTOR SPEED 80 u/SEC

On Chitubox (light off delay 5 – Bottom light off delay 11)

- ANYCUBIC PHOTON (start the Chitubox settings using a standard printer profile)

LAYER EIGHT – 0.05 mm

BOTTOM LAYER COUNT – 7n

EXPOSURE TIME – 14s

BOTTOM EXPOSURE TIME – 90s

LIGHT OFF DELAY – 8s

BOTTOM LIGHT OFF DELAY – 11s

BOTTOM LIFT DISTANCE – 5mm

LIFTING DISTANCE -5mm

BOTTOM LIFT SPEED – 50 mm/min

LIFTING SPEED – 50 mm/min

RETRACT SPEED – 100 mm/min

Primer needed

- **ANYCUBIC PHOTON S**

LAYER EIGHT – 0.05 mm
BOTTOM LAYER COUNT – 7n
EXPOSURE TIME – 7s
BOTTOM EXPOSURE TIME – 60s
LIGHT OFF DELAY – 8s
BOTTOM LIGHT OFF DELAY – 11s
BOTTOM LIFT DISTANCE – 5mm
LIFTING DISTANCE -5mm
LIFTING SPEED – 50 mm/min
LIFTING SPEED – 100 mm/min
RETRACT SPEED – 100 mm/min

Primer needed

ANYCUBIC PHOTON MONO X

LAYER EIGHT – 0.03 mm
BOTTOM LAYER COUNT – 10n
EXPOSURE TIME – 2s
BOTTOM EXPOSURE TIME – 50s
LIGHT OFF DELAY – 7s
BOTTOM LIGHT OFF DELAY – 14s
BOTTOM LIFT DISTANCE – 5mm
LIFTING DISTANCE -5mm
BOTTOM LIFT SPEED – 50 mm/min
LIFTING SPEED – 100 mm/min
RETRACT SPEED – 100 mm/min

Primer suggested



ANYCUBIC PHOTON MONO

LAYER EIGHT – 0.03 mm
BOTTOM LAYER COUNT – 10n
EXPOSURE TIME – 2.4s
BOTTOM EXPOSURE TIME – 50s
LIGHT OFF DELAY – 7s
BOTTOM LIGHT OFF DELAY – 14s
BOTTOM LIFT DISTANCE – 5mm
LIFTING DISTANCE -5mm
BOTTOM LIFT SPEED – 50 mm/min
LIFTING SPEED – 80 mm/min
RETRACT SPEED - 80 mm/min

Primer suggested

ANYCUBIC PHOTON MONO SE

LAYER EIGHT – 0.03 mm
BOTTOM LAYER COUNT – 10n
EXPOSURE TIME – 2.3s
BOTTOM EXPOSURE TIME – 50s
LIGHT OFF DELAY – 7s
BOTTOM LIGHT OFF DELAY – 14s
BOTTOM LIFT DISTANCE - 5mm
LIFTING DISTANCE -5mm
BOTTOM LIFT SPEED – 50 mm/min
LIFTING SPEED – 110 mm/min
RETRACT SPEED 110 mm/min

Primer suggested

ELEGOO MARS

LAYER EIGHT – 0.05 mm
BOTTOM LAYER COUNT – 7n
EXPOSURE TIME – 12s
BOTTOM EXPOSURE TIME – 90s
LIGHT OFF DELAY – 8s
BOTTOM LIGHT OFF DELAY – 11s
BOTTOM LIFT DISTANCE – 5mm
LIFTING DISTANCE -5mm
BOTTOM LIFT SPEED – 50 mm/min
LIFTING SPEED – 80 mm/min
RETRACT SPEED – 100 mm/min

ELEGOO MARS PRO

LAYER EIGHT – 0.04 mm
BOTTOM LAYER COUNT – 7n
EXPOSURE TIME – 10s
BOTTOM EXPOSURE TIME – 80s
LIGHT OFF DELAY – 8s
BOTTOM LIGHT OFF DELAY – 11s
BOTTOM LIFT DISTANCE – 5mm
LIFTING DISTANCE – 5mm
LIFTING SPEED – 50mm/min
RETRACT SPEED – 100mm/min

Primer needed

- ELEGO MARS PRO 2

LAYER EIGHT - 0.05 mm



BOTTOM LAYER COUNT – 7n EXPOSURE TIME – 3.5s BOTTOM EXPOSURE TIME – 60s LIGHT OFF DELAY – 8s BOTTOM LIGHT OFF DELAY – 10s BOTTOM LIFT DISTANCE – 5mm LIFTING DISTANCE – 5mm BOTTOM LIFT SPEED – 50mm/min LIFTING SPEED – 80mm/min RETRACT SPEED – 100mm/min

SparkMaker FHD

BURN IN LAYER NUMBERS OF LAYERS: 8 LAYER THICKNESS: 50u CURE TIME: 40 SEC WAIT BEFORE PRINT: 4 SEC WAIT AFTER PRINT: 0.5 SEC LIFT AFTER PRINT: 5 mm WAIT AFRER LIFT: 0.1 SEC

NORMAL LAYER LAYER THICKNESS: 50u CURE TIME: 14 SEC WAIT BEFORE PRINT: 1 SEC WAIT AFTER PRINT: 0.1 SEC LIFT AFTER PRINT: 5 mm WAIT AFRER LIFT: 0.1 SEC

MOTOR SPEED 200 u/SEC

Zortrax Inkspire

LAYER THICKNESS 50
LAYER EXPOSURE: 8 SEC
BOTTOM LAYER EXPOSURE: 25 SEC
EXPOSURE OFF TIME: 1.5 SEC
BOTTOM LAYERS: 5
ADDITTIONAL SUPPORTS EXPOSURE: 1 SEC
Z LIFT DISTANCE 5
PLATFORM SPEED 90

MOTOR SPEED 90mm/M

Solus 1

LAYER THICKNESS 30
LAYER EXPOSURE TIME1
INITIAL LAYER EXPOSURE 12
NUMBER OF INITIAL LAYER 4
EXPOSURE BUFFER TIME 1
ANTI ALIASING – NONE
SUPPORT MESH QUALITY – MEDIUM



POST-PRINTING PROCESS

Remove the prints from the build plate

Wash the prints in ethyl alcohol 90% to 99%

Dry the patterns with compressed air for best results.

Place the prints in a vessel / plastic cup - Fill the vessel with CREA CURING LIQUID in order to fully submerge patterns

Place the vessel with the patterns inside at UV oven for 30 / 40 min according lamp power and patterns size

The UV cure is done when the pattern color will be BLU (ring on the right)

Wash with tapered water and dry with air AND GO TO CAST

