

LIQUID SILICONE RUBBER TECHNICAL SPECIFICATION

Liquid Silicon Rubber (With Curing Agent)

Cat No.	Grade	Hardness	Colour
BHF-2	General Grade	15 Shore	White
BHF-220	General Grade	20 Shore	White
BHF-225	General Grade	25 Shore	White
BHF-1	Jewellery Grade	40 Shore	Transparent

Liquid Silicon Rubber (Part A: Part B)

Cat No.	Grade	Hardness	Colour
BHF-105	Food / Medical and Jewellery Grade	5 Shore	Translucent
BHF-110		10 Shore	Translucent
BHF-115		15 Shore	Translucent
BHF-120		20 Shore	Translucent
BHF-125		25 Shore	Translucent
BHF-130		30 Shore	Translucent
BHF-135		35 Shore	Translucent
BHF-140		40 Shore	Translucent

Liquid Silicon Rubber (Part A: part B)

Cat No.	Grade	Hardness
BHFPUR	Cement / Concrete Mold	45 Shore

Cat No.	
BHFTHIX	Thickening Agent for Silicone Rubber

Vacuum Degassing Chamber

Vacuum degassing is the process of using vacuum to remove gases from compounds which become entrapped in the mixture when mixing the components. To assure a bubble-free mold when mixing resin and silicone rubbers and slower-setting harder resins, a vacuum chamber is required. A small vacuum chamber is needed to eliminate air bubbles for materials prior to their setting. The process is fairly straightforward. The casting or moulding material is mixed according to the manufacturers directions.



•Product Features of the Chamber

- Stainless steel chamber for long-term air-tightness performance.
- Burhani Vacuum chamber has a rounded edge at the top, for the protection of silicone gasket.
- Vacuum gauge is assembled on a separate port, so that the reading remains accurate even while pumping/venting the chamber.
- Gauge reading in both in Hg and Mpa.
- All kits are vacuum tested for 24 hours before packaging. (leakage less than 2.0 inHg at 24 hours)
- Two-sided flippable vacuum gasket for better durability and reliability.
- The gasket is chemically resistant to butane and other solvents.
- 25 mm thickness Acrylic lid for long life and clear visibility.
- Strong elastic food grade silicone vacuum hose can connect/disconnect easily with the pump/chamber.
- 50um air filter on the vent valve to reduce air flow and prevent any dust/powder flowing into the chamber.
- Easy to install and low-cost to maintain: the chamber can be assembled in 5 minutes.
- 45 day complimentary warranty and life-long parts support.

•Product Specs & Part List of the Chamber

- Vacuum Chamber:** stainless steel
- Lid:** Acrylic
- Vacuum Gasket:** silicone, resistant to Butane and other solvents.
- Vacuum Gauge Assembly:** 0.5 inHg accuracy.
- Valve Assembly:** very high quality air-tight brass valves, with 50um filter on vent port
- Vacuum Hose:** 3.3' / 1 meter food grade collapse-proof silicone hose, 3mm wall thickness (8mm I.D, 14mm O.D)
- Vacuum Pump Adapter:** 3/8" hose barb to 1/4 SAE flare port. . .

Model No	Capacity Gallon	Capacity Litres	Size Dia x Height (cm)	Pump Capacity
BHF2020	1.7	6.3	20x20	1.8 Litres, 1 Stage
BHF3030	5.6	21	30x30	1.8 CFM, 1 Stage
BHF3045	8.5	32	30x45	1.8 CFM, 1 stage
BHF4040	13.5	50	40x40	4.8 CFM, 2 stage
BHF5050	27	100	50x50	9 CFM, 2 Stage

Custom Sizes Manufactured on Demand

Pressure Pot for resin casting



A pressure pot for resin casting manufactured by Burhani Hardware And Fittings is required for bubble-free and air-trap-free resin castings. This is especially critical in creating clear resin castings applications, as trapped air can affect the appearance of a crystal clear casting. The BHFTECH Pressure Pot for resin is designed for use in applying pressure to force air out of resin and to force resin into thin sections of a mold. This eliminates air bubbles and air traps in the cured castings

This is the best pressure pot for resin casting includes a gauge and all the other pneumatic fittings, valves and gauges . However, you will also need to purchase an air compressor of at least 3 H.P. and a ¼-inch adapter or coupling to attach the air compressor to the pot. Both items are readily available with Burhani Hardware and Fittings.

Pressure Pot Specifications: Capacity as per below table

How to use a pressure pot for resin

setting up a pressure pot for casting resin under pressure is the best way to make high quality resin castings. This is especially true with difficult recesses and complex molds. Pressure casting compress air to sizes undetected by the human, creating a virtually bubble less casting.

Simply cast your part in your mold and then insert your mold into the pressure pot. Secure the lid tightly, and then turn on your air supply to fill the pot to 40-50 PSI. (DO NOT EXCEED 50 PSI). Leave the pressure pot on until the casting has cured. Then remove the air source and release the air from the pot. Unfasten the lid and remove your mold from the pot.

Note: You will want to make certain you do not pressure cast soft rubbers as the air bubbles will return once exposed to normal air pressure. You must use your burhani vacuum degassing chamber to remove all air from the mold rubber to avoid having the mold collapse in areas of your mold that have air trapped under the surface. You will have the appearance of warts on the surface of the finished result if you do not.

using a pressure pot for resin : Mix your material in accordance with the directions and pour it into your mold. Place the mold into the pressure pot. Place the lid on the pressure pot and locate the (4) locking slots on the cover lining them up with the (4) swing up bolts on the tank. Place the (4) swing bolts into the slots in the cover and secure the (4) hand nuts tightly on the cover. Make certain the nuts are secured tightly before pressurizing the tank.

CAUTION: DO NOT EXCEED 50 PSI

Model No	Capacity Gallon	Capacity Litres	Size Dia x Height (cm)	Pump Capacity
BHF2020	1.7	6.3	20x20	1.8 Litres, 1 Stage
BHF3030	5.6	21	30x30	1.8 CFM, 1 Stage
BHF3045	8.5	32	30x45	1.8 CFM, 1 stage
BHF4040	13.5	50	40x40	4.8 CFM, 2 stage
BHF5050	27	100	50x50	9 CFM, 2 Stage
Custom Sizes Manufactured on Demand				



Clients – Reference List

	Customer Name	Address
1	College of Agricultural Engineering, BAPATLA	Karlapalem Road. Guntur District. Andhra Pradesh - 522101.
2	Standex Electronics India Pvt Ltd	B 300B,IndoSpace Industrial Park , Block-B, Panrutti Village.Oragadam
3	Bhadouria Glass And Aluminium	Address:128/9, E- Block, Kidwai nagar. Kanpur-208011
4	Ideas Elevation	Bhagal, Rander, Surat
5	Bhavani Singh	D-178, Kaushik Bhawan. Opposite Rajput Hospital. Sindhi Camp. Jaipur-302006.
6	53 Online Shop	2-2-185/28/A/A, Malikarjuna Nagar, Amberpet. Hyderabad - 500013
7	Maruti Engineering	Hariom nagar. Opp. Jivaba School. Ghodashr . Ahmedabad
8	Amara Raja Batteries	18/1/AMR/NR, Nanakramguda, Gachibowli, Hyderabad-500032
9	Aavishkar Oral Strips Pvt Ltd.	Lane 6,Cherlapally,R.R Dist, Hyderabad,Andhra Pradesh, India - 500051.
10	Apex Printing Sleeves India Pvt Ltd	E-19/B, E-19C Sinner Malegaon MIDC. Nashik -422103.
11	LED Light Solutions	B17, First Floor, Patparganj Industrial Area, Delhi – 110092
12	Bereian Communications and components	uppal, uppal near orange super, hyderabad, Telangana - 500039.
13	TIME TECHNOPLAST LTD - UNIT-II DAMAN	SURVEY NO. 377/1, PLOT NO 3,4,5 & 6, KACHIGAM, DAMAN (U.T) – 396210
14	Advanced Power Sources Ltd	Survey no. 172/1, Paikee2, Old GIDC. Gundlav. Valsad. Gujarat – 396035
15	Cabsy Apparels	2 housing unit main road. College Road. , Tirupurur - 641602.
16	Chennai BrushTek	No.7 , Moorthy Nagar, Rathinam Street. Padi, Chennai - 600050.
17	Packagaing Clinic and Research Institute	Rajbhavan Road. Somajiguda. Hyderabad - 500082. Telangana
18	Sowparnika Thermistor and Hybrids Pvt Ltd	Athekad, Kolazhy, Thrissur, Kerela. 680010
19	Shravan Vishwakarma	3-72, Anajpur(V), Hayathnagar(M), Ranga Reddy Dist
20	Genesis Silicone House	B-5 , Ground Floor. Vishal Nagar. Malad West. Mumbai – 64
21	Axess Ultrasonics Pvt Ltd	Sahibabad Industrial Area Site - IV, Ghaziabad - 201010 (U.P.)
22	SRM Marketing LLP (Formerly S.R.Marketing)	242/5 IND. PLOT No.2 Harmara Road. Madanganj. Kishangarh-305801.
23	Valence Electronics Private Limited	No.32 K.R. Colony, Domlur, Benagaluru - 560071. India
24	Gevasol Industries PVT.LTD	MundhwaKharadi Road. Magarpatta, Pune 411028, India
25	Padmasri Digital Prints	10 th Cross, 3rd main, L.N Puram, bangalore – 5620021
26	Healthcare Technology Innovation Centre - IIT Madras,	Kanagam Road, Taramani, Chennai-600113
27	Micon Engineering Works	Netaji Subash Road, Kolkata 700001, West Bengal
28	AUTOCOP (INDIA) PVT LTD.	Thanna Baddi, Solan 173205 (Himachal Pradesh.)
29	Microtech Engineers	SIDCO Industrial Estate, Thirumudivakkam,Chennai-600044
30	Globus medisys	Harinagar crossing , Gotri main road Vadodara 390023 Gujarat
31	Carafewerk Private Limited	Aundh, Siddhivinayak Lo, Pune,
32	Quarks Systems	Kheralu Road, Visnagar-384315. Gujarat
33	CVR COLLEGE OF ENGINEERING,	Ibrahimpatnam (M), Rangareddy (D), Telangana 501 510.
34	Valence Electronics Private Limited	No.32 K.R. Colony, Domlur, Benagaluru – 56007
35	Think and learn Pvt LTD.	IBC knowledge park, bannerghatta main road. Bangalore, Karnataka
36	IJUSCUBE TECHNOLOGIES pvt ltd	Sangam Enclave road, Kothanur, Bangalore 560077
37	Kristal Foods	Sedarapet, industrial Area, Puducherry
38	Miracle Electronic Devices Pvt Ltd	Thigalarapallya Main Road, Peenya 2nd Stage, BANGALORE – 560058
39	CORPORATE CHANNELS INDIA PVT LTD	Badgaory Udaipur - 313 001, Rajasthan
40	H K Wentworth India Pvt Ltd	6th Main, 3rd Phase, Peenya Industrial Area, Peenya Bangalore, PIN – 560058
41	MICRO SPRING PRODUCTS	Sakthi Sai ram Street, ganapathy nagar Alappakkam, Chennai-
42	Micro Sensing Technologies	Nadiad-Uttarsanda Road Nadiad - 387001 Gujarat
43	VNV Agro	Kooraikundu Panchayat. Virudhunagar. Tamil Nadu
44	Advanced Power Sources Ltd	Old GIDC. Gundlav. Valsad. Gujarat - 396035
45	Mall Swamy	Rajeshwari Nagar. Laggere, Bangalore – 560058
46	Peramoon International Private Limited	Shushruti Nagar, Muneshawara Temple. Bangalore – 56009
47	Newndra Inovation Pvt Ltd	Ajmer Road. Jaipur - 302021, Rajasthan, India
48	Flick Crafts	Thendal Street. Vandimadu. Villipuram – 605602
49	VIN DIP India Pvt Ltd	I.D.Ajeedimetta, Hyderabad - 700001 Telangana
50	Yantrika Instruments Pvt Ltd	Udyog Vihar. Phase-6 . Gurgaon - 122004.
51	Milky Mist Dairy Food Private Limited	Erode Road, Chittode - 638 102. Erode District, Tamil Nadu
52	Sun Face Switches	4th Main Road. Perumal Nagar. Old Pallavaram . Chennai-600117
53	VitaveTech s.r.o.	Mokra 1289/ 1a, Prague 4, 149 00, Czech Republic

ULTRA-HIGH GLOSS & TRANSPARENT EPOXY RESIN - BUCR53

TECHNICAL SPECIFICATION

It is two-part epoxy system with High Glossy , Transparent, low viscosity and UV stable liquid epoxy resin for casting, coatings, and adhesive applications. It is a range of high-performance user-friendly epoxy resins.

PROPERTIES:

S.NO	DESCRIPTION	PARAMETERS	
		RESIN	HARDENER
1	Physical State	Low Viscous Liquid	Low Viscous Liquid
2	Colour	Clear	Clear
3	Viscosity (mPas 25 °C)	1160	479
4	Mixing Ratio	100	60
5	Gel Time @ 25 °C (Min)	5-10 min	
6	Set Time (Min)	15-20 Min	
7	Drying Time (Min)	30-40 Min	

FEATURES & BENEFITS:

100% Clear & Transparent.

High Gloss Finishing Green

Non Yellowing

Can be Pigmented using suitable pigments

Very less shrinkage

Industry leading UV stability

Excellent moisture protection barrier, stable in acidic pH solutions

Excellent flow properties (low viscosity) with efficient substrate wetting

Unique mechanical properties

STORAGE & PRE -MIXING:

The two components (Resin & hardener) should be stored in separate at all times prior to use. Store in cool , Dry & Away from Sun Light.

Warm Temperature should be avoided in storage area , Warm temperature reduce the shelf life. The handling equipment & the storage area should be free from chemical residue , Foreign matters.

TECHNICAL GUIDELINES FOR USING:

- Measure the Part A (Resin) and the Part B (Hardener) in two separate containers.
- Transfer Part A into the suitable Glass Beaker
- Start gentle stirring
- After stirring the part A, transfer Part B to it.
- Continue the gentle stirring & Reaction to progress.
- Take care not to get air trapped within mixture
- The Mixed epoxy resin should be applied or poured within 5-10 min Time.
- For design applications, Degassing may be required to remove the Air bubbles from the texture.
- Upon curing remove the material from moulds.

SHELF LIFE:

Twelve (12) months from date of shipment when stored at 25°C in the original sealed packages.











FIRST AID:

Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.

Skin Contact: In case of skin contact, wash thoroughly with soap and water; remove contaminated clothing and launder before reuse; seek medical attention if rash develops.

Ingestion: Do not induce vomiting unless instructed by a physician. Contact physician immediately.

APPLICATION

Sculpture & Art Casting	
3D Flooring	
Designed Table Tops /River table	
Artificial Jewellery making	
Encapsulation & Display	
Model /Prototype Making	
Artificial designer door coating	
Industrial coating and component making	
Lamination/ Coating	
Cast resin	

CLEAR CASTING RESIN - POLYESTER – BCC53

TECHNICAL SPECIFICATION

It is two-part epoxy system for casting, coatings, and adhesive applications. It is a range of high-performance user- friendly epoxy resins

PROPERTIES:

S.NO	DESCRIPTION	PARAMETERS	
		RESIN	HARDENER
1	Physical State	Low Viscous Liquid	Low Viscous Liquid
2	Colour	Light Dull Transparent White	Light Dull Transparent White
3	Viscosity (mPas 25 °C)	1100	1200
4	Mixing Ratio	100	10
5	Gel Time @ 25 °C (Min)	10-20 min	
6	Set Time (Min)	30-40 Min	
7	Drying Time (Min)	50-60 Min	

FEATURES & BENEFITS:

High Gloss Finishing

Can be Pigmented using suitable pigments

Very less shrinkage

Excellent moisture protection barrier, stable in acidic pH solutions

Excellent flow properties (low viscosity) with efficient substrate wetting

Unique mechanical properties

STORAGE & PRE –MIXING:

The two components (Resin & hardener) should be stored in separate at all times prior to use. Store in cool , Dry & Away from Sun Light.

Warm Temperature should be avoided in storage area , Warm temperature reduce the shelf life. The handling equipment & the storage area should be free from chemical residue , Foreign matters.

TECHNICAL GUIDELINES FOR USING:

- Measure the Part A (Resin) and the Part B (Hardener) in two separate containers.
- Transfer Part A into the suitable Glass Beaker
- Start gentle stirring
- After stirring the part A, transfer Part B to it.
- Continue the gentle stirring & Reaction to progress.
- Take care not to get air trapped within mixture
- The Mixed epoxy resin should be applied or poured within 5-10 min Time.
- For design applications, Degassing may be required to remove the Air bubbles from the texture.
- Upon curing remove the material from moulds.

SHELF LIFE:

Twelve (12) months from date of shipment when stored at 25°C in the original sealed packages.










FIRST AID:

Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.

Skin Contact: In case of skin contact, wash thoroughly with soap and water; remove contaminated clothing and launder before reuse; seek medical attention if rash develops.

Ingestion: Do not induce vomiting unless instructed by a physician. Contact physician immediately.

APPLICATION

Sculpture & Art Casting	
Coatings and Sealants	
Adhesives	
Home Projects & Hobbies	
Encapsulation & Display	
Model /Prototype Making	
Open & closed molds	
Industrial coating and component making	
Lamination/ Coating	
Cast resin	