

**BOND1NE**<sup>®</sup>  
EPOXY ADHESIVES



**BONDING**



**BONDS TOGETHER FOREVER**

## HINDUSTHAN SPECIALITY CHEMICALS LIMITED (HSCL)

HSCL is a part of The Hindusthan Group having interests in manufacturing and marketing of epoxy and allied products. HSCL started operations in July' 2015 for manufacturing of epoxy and other allied products in Bharuch, Gujarat. It intends to provide complete solutions to customers with technologically advanced materials through innovation and its principles of sustainability. HSCL's products will find application in civil, construction, coatings, electrical & electronics, composites, laminations, adhesives, tooling and other niche end-use segments.

We are committed to serve quality products to our clients. Our quality lab is equipped with world class instruments which can help us to achieve excellence in both incoming raw materials and outgoing value added products. Our quality team is composed of highly qualified chemists who know the right basics and are competent to test the products for their right application. We value our team and train them for the new technologies that can help achieving results quickly and with great reliability.

HSCL believes in innovation and value added research. We have invested in valuable assets both trained technologists and highly sophisticated instruments. HSCL Research & Development facilities will take care of value-added application tests, our dedicated step in this direction will enable our customers to know the performance of their product in the exhaustive working environments. HSCL aims planned continual growth by its dedicated efforts towards research & development.

### VISION



To become a globally recognised manufacturer of Epoxy Resins & Speciality Chemicals by delivering enhanced value for all our stake-holders through best-in-class technology, innovation & differentiated products & services.

### MISSION



To invest in sustainable, innovative technologies and operational excellence to deliver growth in strategically targeted markets together with exceptional customer service.

Our state-of-the-art manufacturing unit  
Jhagadia, Bharuch in Gujarat



#### Customer Focus

Our actions are driven by customer insights that help them to create value.



#### Innovation

We develop new products by relentlessly pursuing "Why & What If". We strive to closely understand customer needs & market insights to create competitive advantage.



#### Collaboration

Working together, both internally and externally, to create better solutions.



#### Transparency & Integrity

We demonstrate high degree of transparency and integrity by taking full responsibility of our actions. We are trustworthy in our transparent and ethical manner.



#### Excellence

We strive to achieve excellence in everything we do through shared knowledge, personal development, continuous improvement, safety and best-in-class execution.





# BOND1ONE<sup>®</sup>

## BRISTLEGRIP

BondOne Bristlegrip is two component modified epoxy bonding system.

### Applications

- Paint brush industries for fixing ferrule to bristles

### Features - Benefits

- Excellent solvent resistance
- Excellent mechanical strength
- Electrical insulation

Mixing ratio by weight (R:H)	Pot life at 25°C 100 gm mass (Min)	Bond Strength (kg/cm²) at 25°C after 24 hrs.
100:10	40 - 55	Min 80

Coverage | DFT (sq. ft. | microns)  
NA

### SKUs | Packaging Units

1.1 kg	5.5 kg	33 kg
--------	--------	-------

Mix Viscosity (mPas) at 25°C  
300 - 500

### Drying time (min) at 25°C

Surface dry	Touch dry	Hard dry
230 - 250	620 - 640	820 - 840

Shelf life  
12 Months



### Method of application

1



Clean base surface | wooden handle of brush thoroughly to make it grease and dust free.

2



If required, mix filler in resin in appropriate quantity.

3



Mix resin and hardener in ratio of 100:10, mix gently so as to avoid bubble formation.

4



Place bristles, add resin hardener mixture and allow to set for 10 - 12 hours.

5



After resin and hardener are mixed, color of mixture will change in sometime. This is normal phenomenon and wont affect properties.

6



Allow to dry for 24 hours for optimum results.



# BOND1ONE<sup>®</sup>

## BRISTLEGRIP A

BondOne Bristlegrip A is two component, low viscous, modified epoxy bonding system.

### Applications

- Paint brush industries for fixing ferrule to bristles

### Features - Benefits

- Excellent solvent resistance
- Excellent mechanical strength
- Electrical insulation

Mixing ratio by weight (R:H)	Pot life at 25°C 100 gm mass (Min)	Bond Strength (kg/cm²) at 25°C after 24 hrs.
100:10	25 - 35	Min 60

Coverage | DFT (sq. ft. | microns)  
NA

### SKUs | Packaging Units

1.1 kg	5.5 kg	33 kg
--------	--------	-------

Mix Viscosity (mPas) at 25°C  
300 - 500

### Drying time (min)

Surface dry	Touch dry	Hard dry
-	-	-

Shelf life  
12 Months



### Method of application

1



Clean base surface | wooden handle of brush thoroughly to make it grease and dust free.

2



If required, mix filler in resin in appropriate quantity.

3



Mix resin and hardener in ratio of 100:10, mix gently so as to avoid bubble formation.

4



Place bristles, add resin hardener mixture and allow to set for 10 - 12 hours.

5



After resin and hardener are mixed, color of mixture will change in sometime. This is normal phenomenon and wont affect properties.

6



Allow to dry for 24 hours for optimum results.

# BOND1NE<sup>®</sup> ALLCAST



BondOne Allcast is un-modified epoxy system for multipurpose application along with BondOne Allcast hardener.



## Applications

- Abrasive bonding
- Flap wheels bonding
- Metal - metal or metal - non metal bonding

## Features - Benefits

- Superb bond strength
- Chemical resistance
- Mechanical stability

Mixing ratio by weight (R:H)	Pot life at 25°C 100 gm mass (Min)	Bond Strength (kg/cm <sup>2</sup> ) at 25°C after 24 hrs.
100:10	25 - 35	Min 100

## Coverage | DFT (sq. ft. | microns)

Will vary based on surface and application

## SKUs | Packaging Units

Resin	30 kg	
Hardener	30 kg	110 kg

## Mix Viscosity (mPas) at 25°C

2000 - 3000

## Drying time (min)

Surface dry	Touch dry	Hard dry
-	-	-

## Shelf life

24 Months

## Method of application



Make sure that mould surface is clean, dry and free from oil, dust, grease and other contaminants.



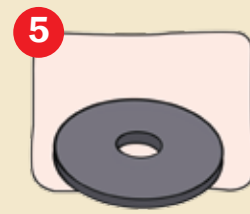
Mix resin and hardener in 100:10 ratio by weight. Mix thoroughly till uniform homogeneous mixture is formed.



Apply release agent to mould.



Cast the material in the mould of abrasive.



Allow to dry for 24 hours to get full curing.

# BOND1NE<sup>®</sup> CASTO



BondOne Casto is a low viscosity ambient curing epoxy system for casting application.



## Applications

- Binder for abrasive wheel casting
- General casting
- Small scale potting and encapsulation systems

## Features - Benefits

- Low viscosity
- Low shrinkage
- Chemical and temperature resistant

Mixing ratio by weight (R:H)	Pot life at 25°C 100 gm mass (Min)	Bond Strength (kg/cm <sup>2</sup> ) at 25°C after 24 hrs.
100:10	25 - 35	-

## Coverage | DFT (sq. ft. | microns)

NA

## SKUs | Packaging Units

1.1 kg	33 kg
--------	-------

## Mix Viscosity (mPas) at 25°C

500

## Drying time (min)

Surface dry	Touch dry	Hard dry
-	-	-

## Shelf life

Resin: 24 Months

Hardener: 12 Months

## Method of application



Add mineral filler powder in resin to get required consistency.



Add hardener to resin-filler mixture, mix properly.



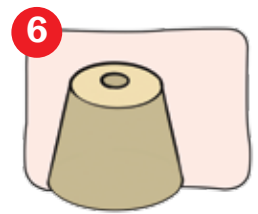
Make sure the mould is clean without contaminants and apply release agent to the mould.



Pour the mixture in to the mould.



Allow to cure overnight. Remove the mass from mould and polish for finishing.



Abrasive will be ready after finishing work.



**BOND1NE®**  
**ELECTROCAST**

## Notes



BondOne Electrocast is a black | brown colored, solvent less, filled epoxy system.



## Applications

- Casting, potting and sealing of small and medium sized electrical components
- Casting of switch gear components and insulators
- Cable joint insulation
- Topping of capacitors as sealants

## Features - Benefits

- Thermal shock resistance
- Reduced shrinkage
- Low coefficient of thermal expansion
- Increased thermal conductivity

Mixing ratio by weight (R:H)	Pot life at 25°C 100 gm mass (Min)	Bond Strength (kg/cm <sup>2</sup> ) at 25°C after 24 hrs.
100 :25	155 - 170	–

**Coverage | DFT (sq. ft. | microns)**

NA

### SKUs | Packaging Units

Resin	4 kg	20 kg
Hardener	1 kg	5 kg

### Mix Viscosity (mPas) at 25°C

1800 - 2500

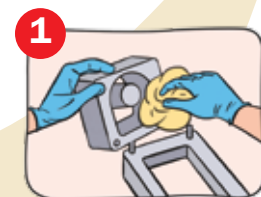
**Drying time (min)**

Surface dry	Touch dry	Hard dry
–	–	–

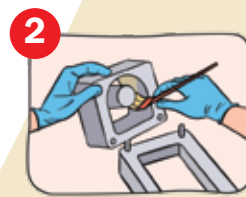
### Shelf life

12 Months

## Method of application



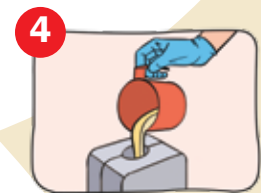
Make sure casting surface is clean without contaminants.



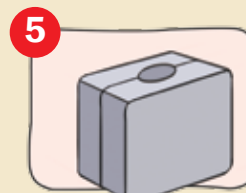
Apply release agent to mould.



Mix resin: hardener in ratio 100:25 to get uniform mixture.



Pour mixture in casting mould.



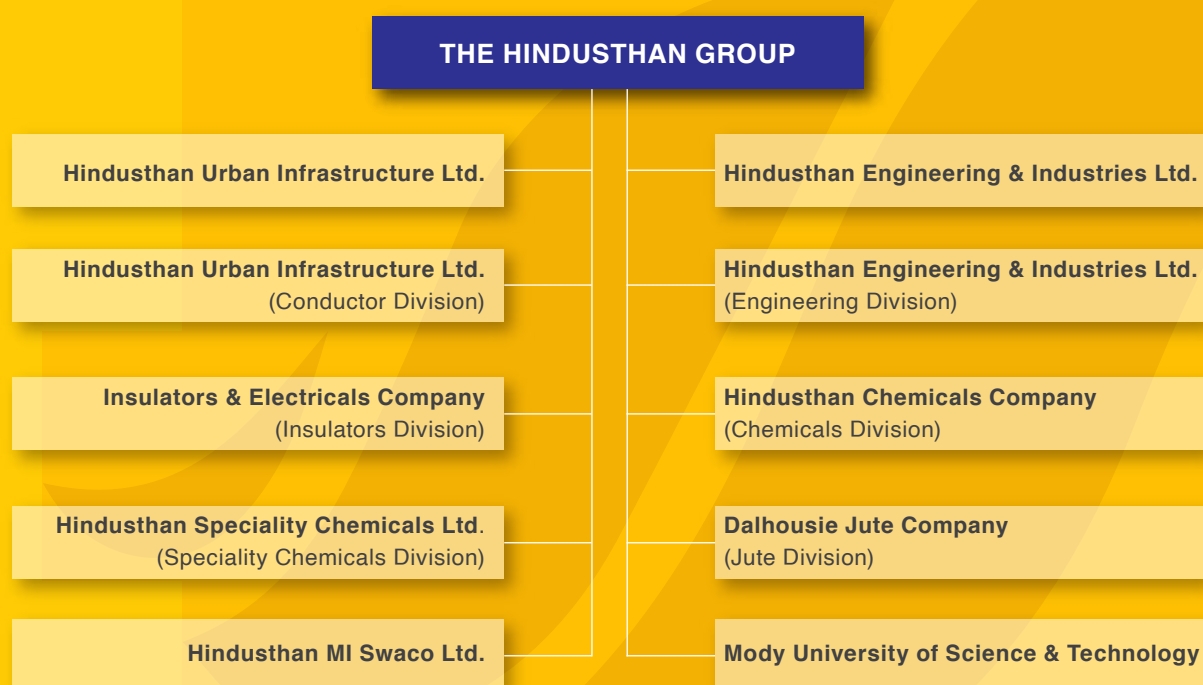
Allow to set for 24 hrs.



Take out the casting from the mould and prepare the surface for final finishing.



Contributing to the development of the Indian economy for more than 6 decades, we are a multi – discipline, multi – location, well diversified industrial conglomerate involved in core sector areas like Engineering, Electricals, Chemicals, Agro Based products, Renewable Energy & Education. We are powered by an able and dynamic team of committed professionals and a vast pool of skilled manpower. Equipped with state-of- art technology, we have industrial units and offices spread across various locations of the country & our team strength has been growing over the years. Continuously seeking initiatives for diversification, expansion and optimization translating into new products and innovations; we have catapulted ourselves into the frontiers of technology in each area of our activities through strategic alliances and mutual partnerships with global leaders and thrusting a major focus on research development and human resources. With such a long and strong history behind us, we have a remarkable foothold in government sectors and overseas market.



#### Head Office

Kanchenjunga, 7th Floor, 18, Barakhamba Road,  
New Delhi - 110001.

T: +91 11 23310001/02/03/04/05

#### Marketing & Sales Office

65, Free Press House, Free Press Journal Road,  
Nariman Point, Mumbai - 400021.

T: +91 22 61510960

#### Factory Address

Hindusthan Speciality Chemicals Ltd.  
Plot No. 830, GIDC, Jhagadia Industrial Estate, Jhagadia,  
Bharuch, Gujarat - 393110.

Regional Presence: **Delhi | Mumbai | Kolkata | Chennai**

For more information, please email us at [support.hscl@hindusthan.com](mailto:support.hscl@hindusthan.com)

or call at **9117 020202**

[www.hindusthanspeciality.com](http://www.hindusthanspeciality.com)

