

# **BIG-BEN AUTOMOTIVE & INDUSTRIAL PAINT COMPANY**



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# **PRODUCT MANUAL**

YEAR



**2022-23**

# **BIG-BEN (PAINTS) CO., LTD.**

IS THE PAINT MANUFACTURER AND DISTRIBUTOR FROM THAILAND ESTABLISHED IN JULY 1992. OUR VISION IS TO BE A COATING SOLUTION PROVIDER WHERE CUSTOMERS GAIN MUTUALLY BENEFIT PARTNERSHIPS IN DEVELOPMENT OF HIGH QUALITY PRODUCTS WITH PROFESSIONAL SERVICES. BIG-BEN OFFERS MORE THAN 500 DIFFERENT PAINT PRODUCTS COVERING FIVE AREAS, NAMELY AUTOMOTIVE REFINISH, DECORATIVE COATINGS, INDUSTRIAL COATINGS, WOOD COATINGS, AND SPECIAL COATINGS.

## **➤ QUALITY & MANUFACTURING**

BIG BEN HAS CONTINUOUSLY ENHANCED AND IMPROVED PRODUCTION PROCESS TO ACCOMMODATE CUSTOMERS' REQUIREMENTS AND FUTURE GROWTH. FOR THE PRODUCTION PROCESS, WE HAVE IMPLEMENTED THE COMPUTERIZED PRODUCTION PROCESS WHICH SPANS FROM RAW MATERIAL ACQUISITION, MANUFACTURING PROCESS, QUALITY ASSURANCE, AND QUALITY CONTROL. BIG-BEN MAKES SURE THAT EVERY SINGLE PRODUCT HAS BEEN TESTED WITH THE CONSISTENCY BETWEEN BATCHES. THAT IS WHY BIG-BEN'S PRODUCTION PROCESS HAS BEEN ACCREDITED BY INTERNATIONAL STANDARD ISO 9001.

## **➤ RESEARCH & DEVELOPMENT**

BIG-BEN HAS CONTINUOUSLY RESEARCHED AND DEVELOPED OUR PRODUCTS. OUR RESEARCH TEAMS CONDUCT THEIR EXPERIMENTS AT THE STATE-OF-ART WELL EQUIPPED LABORATORY THAT MEET INTERNATIONAL TESTING STANDARDS INCLUDING WEATHERING TEST, SALT SPRAY TEST, ETC. THIS WILL ENSURE THAT YOU WILL HAVE QUALITY PRODUCTS THAT MEET YOUR REQUIREMENTS. FURTHERMORE WE CONSISTENTLY IMPROVE NOT ONLY BETTER PRODUCTS BUT ALSO EASIER WAYS TO USE OUR PRODUCTS.

## **➤ TECHNICAL SUPPORT**

BIG-BEN HAS COMMITTED NOT ONLY TO IMPROVE PRODUCTS BUT ALSO TO TRAIN HOW TO APPLY OUR PRODUCTS CORRECTLY, THIS WILL HENCE ENHANCE THE LONG TERM DURABILITY AND BENEFIT YOU IN BOTH TIME AND MONEY. THE TRAINING WHICH COVERS BOTH THEORETICAL AND PRACTICAL LESSONS, IS REGULARLY HELD FOR OUR DEALERS AND END-USERS AT OUR TRAINING CENTER. IN ADDITION, WE PROVIDE ON SITE TECHNICAL SUPPORTS.

## **➤ ENVIRONMENT FRIENDLY**

BIG-BEN HAS LONG TERM GOAL TO PROVIDE YOU WITH THE ENVIRONMENTAL FRIENDLY PRODUCTS, THIS IS THROUGH THE NEW AUTOMOTIVE REFINISH SYSTEM: LE SERIES AND WATER-BORNE SERIES. BIG-BEN HAS BEEN CERTIFIED WITH ISO 14001.



**WHO?**  
**WE ARE?**



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# B I C

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COAL TAR EPOXY,

PLASTIC FLEXIBLE ADDITIVE,

TACK CLOTH

SAND PAPER

### MIXING EQUIPMENT

MIXING MACHINE SET



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## SPECIFICATION AND TECHNICAL TERMS ◀

**REFINISH PROCESS:** THE PROCESS IN WHICH PAINTER WILL TRY TO RETRIEVE TO ORIGINAL PAINT CONDITION. UNLIKE OEM PROCESS, THE REFINISH PROCESS TYPICALLY IS DONE BY AIR DRY OR CHEMICAL DRY. REFINISH PROCESS STARTS WITH INSPECTION OF EXISTING PAINT. IF THE ORIGINAL PAINT IS CHALKY, REMOVE EXISTING PAINT TO BARE STEEL.

APPLY DIRECT-TO-METAL PRIMER TO PREVENT RUSTING. LEVEL THE SURFACE WITH BODY FILLER OR POLYESTER PUTTY. THEN FURTHER SMOOTH OUT THE SURFACE BEFORE TOP COAT WITH SECOND PRIMER. FINISH OFF WITH TOP COAT WHICH CAN BE EITHER SOLID FINISH OR BASE COAT/CLEAR. TO ENHANCE THE FINAL GLOSS, YOU MAY APPLY CLEAR COAT.

## TABLE OF LAYERS OF COLORS ◀

	Detail	texture
Top Coat / Clear Coat	Top Coat / Clear Coat N/C I Acrylic I 2K I Base Coat / Clear System	
Primer before Top Coat	Primer before Top Coat N/C Primer I Acrylic Primer I 2K Primer	
Body Filler or Putty	Body Filler I Putty	
Direct to Metal Primer	Wash Primer I Epoxy Primer I 2K Primer	



Single Stage or Two-Stage System

Levelling / Pin Holes / Scratch

? Check Quality of Old Paint  
 ✓ Skip to next step  
 ✗ Remove old paint and redo direct to the metal primer

1K/2K are the types of paint. K here stands for component. 1K means single component paint. The drying of 1K comes from evaporation of thinner inside. 2K means two-component. It comes with hardener. The drying of 2K comes from the chemical reaction between paint and hardener. Also when using 2K paints, you have to be careful about pot life or gel time of mixture. Once you mix hardener to paint, the pot life is 4 hours, except body filler and putty, where pot life is 5 minutes.

Hardener is chemical substance used to mix with 2K paint. It helps to harden the film by chemical reaction. Hardener is also known as activator.

Thinner is solvent used to dilute the paint down to application viscosity. In some countries, e.g. USA, thinner refers to solvent used in cleaning process, while reducer refers to solvent used to dilute down the paint. However, in this manual, we will use thinner and reducer interchangeably.

Mixing ratio is the recommended mixture volume of paint. The mixing ratio in this book refers as PAINT : HARDENER : THINNER. All mixing ratio is by volume.

Cleaning is strongly recommended for every step of refinish process. Degreaser #85-4 or #85-7 helps to remove adhesives, dirt, dust, fingerprint, grease, oil, silicone, sanding residue, or wax on the prepared surface.

## PRODUCT CODE ◀

AAA-BXXX

B refers to product shade. E.g.  
O means black.

AAA represents product type. E.g.  
80 means 2K primer.  
560 means LE Base Coat

## SANDING GUIDELINE ◀

	Sanding with Orbital Sander	Manual Sanding
Direct-Metal Primer	> P400	> P180
Body Filler Heavy Weight	> P80	> P80
Putty Light Weight	> P240	> P240
Primer before Top Coat	> P400	> P400
Base Coat (Optional)		

## RECOMMENDED SPRAY SPECIFICATION ◀

Product	HVLP Spray Gun	Gravity or Suction Spray Gun
Primer	Nozzle 1.4-1.7 mm. Max 10 psi.	Nozzle 1.6-1.8 mm. Air Pressure 35-40 psi.
Solid Colors	Nozzle 1.0-1.2 mm. Max 10 psi.	Nozzle 1.5-1.6 mm. Air Pressure 35-40 psi.
Metallic Base Coat	Nozzle 1.0-1.2 mm. Max 10 psi.	Nozzle 1.3-1.4 mm. Air Pressure 35-40 psi.
Clear Coat	Nozzle 1.0-1.2 mm. Max 10 psi.	Nozzle 1.4-1.6 mm. Air Pressure 35-40 psi.

## PACKAGING SIZES ◀

Most of products here are packed in 1L or 4L. Hardener packaging is corresponding with Part A. e.g. if the product is in 1L and mixing ratio is 4:1, hardener will be packed as 0.25L. Thinner and solvent packaging include: 1L, 4L, 18L, and 200L. Big-Ben also has packaging in metric system where 1 Gallon is 3.785 liters.





# PRIMER

**BicBen offers**  
several types of primers  
and can be classified into two groups,  
i.e. single and two-component primers.

▶ Primers with hardener (2-component)  
include: epoxy primer, wash primer,  
and 2K polyurethane primer.

▶ Primers without hardener (1-component)  
are: acrylic primer, nitrocellulose  
primer, and plastic primer.

# ▶ TWO-COMPONENT PRIMER (WITH HARDENER)

**58 LINE**

## EPOXY PRIMER ◀

Available in following shades:

58-0001
58-0109
58-3016
58-5200



### Product details

**Feature:** A Two-component Epoxy Primer that contains epoxy resin as the first part and Polyamide as the second part. It provides excellent adhesion to all metals and protects against harsh conditions that can cause rust on steel surface. In addition, it can be used as heavy build filler without affecting the gloss of top/base coat.



**Spray Method**

Spray 2-3 coats with the flash off time 15 minutes. Pot-life after mixing is 6 hours. (depending on environment).

**Coverage:** Approximately 8-10 m<sup>2</sup>/liters of un-mixed paint per single coat.

Drying	Fast	Medium	Slow
	< 20°C / 68°F 21-17	25°C / 77°F 21-17	30-35°C / 86-95°F 21-17
Touch dry	50-60 mins	40-50 mins	30-40 mins
Hard dry	10-12 hrs	8-10 hrs	7-8 hrs

Mixing Ratio	Thickness Per Coat
Epoxy Primer : Primer Hardener : Primer Thinner	4 : 1 : 1-3 70-100 μ

Packing Size			
58-XXXX	Epoxy Primer	1	liter
21-17/2	Hardener	0.25	liter
58-XXXXL	Epoxy Primer	4	liters
21-17	Hardener	1	liter

Related Products	
21-17	Hardener for Epoxy Primer
86-145	Thinner for Epoxy Primer



# ▶ TWO-COMPONENT PRIMER (WITH HARDENER)

**82 LINE**

## WASH PRIMER ◀

Available in following shades:

82-0001
82-0081
82-3000
82-5001
82-6004



### Product details

**Feature:** Etch Primer/ Wash primer, is a two component adhesion promoter primer. It's 2 pack reactive polyvinyl polymer with very high anti-corrosion pigment that promotes adhesion and serves as passive treatment of metal substrate, especially Aluminum and top-grade steel.



**Spray Method**

Spray paint 2 coats, resting at least 15 minutes pot life is 12 hours between rounds. (depending on environment)

**Coverage:** Approximately 8-10 m<sup>2</sup>/liters of un-mixed paint per single coat.

Drying	Fast	Medium	Slow
	< 20°C / 68°F	25°C / 77°F	30-35°C / 86-95°F
	21-1 / 21-24	21-1 / 21-24	21-1 / 21-24
Drying time	50-60 mins	40-50 mins	30-40 mins

Wash Primer : Primer Hardener : Primer Thinner	Mixing Ratio		Thickness Per Coat
	21-1	4 : 1 : 1	20-30 μ
21-24	1 : 1 : N/A	60-80 μ	

Packing Size			
82-6004	Wash Primer	1	liter
21-1/2	Hardener	0.25	liter
82-6004L	Wash Primer	4	liters
21-1	Hardener	1	liter
82-0001	Wash Primer	1	liter
21-24/2	Hardener	0.25	liter
82-0001L	Wash Primer	4	liters
21-24	Hardener	1	liter

Related Products	
21-1	Hardener for Wash Primer
21-24	Hardener for Wash Primer
86-114	Thinner for Wash Primer



# ▶ TWO-COMPONENT PRIMER (WITH HARDENER)

80 LINE

## 2K POLYURETHANE ◀◀ PRIMER

Available in following shades:

80-0001
80-0094
80-5300
80-6070



### Product details

**Feature:** A Two-component Polyurethane Primer that contains polyurethane resin as the first part and isocyanate as the second part. It provides excellent adhesion to all metals and protects against harsh conditions that can cause rust on steel surface. In addition, it can be used as heavy build filler without affecting the gloss of top/base coat.



Spray Method

As adhesion promoter (between putty and top coat), apply 2 coats. Recommended dry film thickness at 20-30 microns. As sealer, apply 2-3 coats.

**Coverage:** Approximately 9-10 m<sup>2</sup>/liters of un-mixed paint per single coat.

Drying	Fast	Medium	Slow
	< 20°C / 68°F 21-20	25°C / 77°F 21-20	30-35°C / 86-95°F 21-20
Drying time	50-60 mins	40-50 mins	30-40 mins

Mixing Ratio	Thickness Per Coat
2K Primer : Primer Hardener : Primer Thinner	4 : 1 : 1-3 60-80 μ

Packing Size			
80-XXXX 21-20/2	2K Polyurethane Primer Hardener	1 0.25	liter liter
80-XXXXL 21-20	2K Polyurethane Primer Hardener	4 1	liters liter

Related Products	
21-20	Hardener for 2K Primer
86-115	Thinner for 2K Primer



# ▶ ONE-COMPONENT PRIMER (WITHOUT HARDENER)

**81 LINE**

## ACRYLIC PRIMER ◀◀

Available in following shades:

81-0001
81-0081
81-0222
81-5001



### Product details

**Feature:** Acrylic Primer is 1K primer. It's contain high performance Acrylic resin and anti-corrosion chemicals. It's provides excellent adhesion to all metals and protects against harsh conditions that can cause rust on steel surface. In addition, it can be used as heavy build filler without affecting the gloss of base coat or clear coat.



As adhesion promoter (between putty and top coat), apply 2 coats. Recommended dry film thickness at 40-50 microns. As sealer, apply 2-3 coats.

**Coverage:** Approximately 10-12 m<sup>2</sup>/liters of un-mixed paint per single coat.

Drying	Fast	Medium	Slow
	< 20°C / 68°F	25°C / 77°F	30-35°C / 86-95°F
Drying time	50-60 mins	40-50 mins	30-40 mins

Mixing Ratio	Thickness Per Coat
Acrylic Primer : Primer Thinner	20-25 μ
	1 : 1-1.5

Packing Size			
81-XXXX	Acrylic Primer	1	liter
81-XXXXL	Acrylic Primer	4	liters

Related Products	
86-104	Thinner for Acrylic Primer



# ▶ ONE-COMPONENT PRIMER (WITHOUT HARDENER)

82 LINE

## PLASTIC PRIMER ◀◀

Transparent ready to use liquid primer.



### Product details

**Feature:** Infinity Plastic primer, Chlorinated- polyolefin base resin. It's provided good adhesion on plastic such as High density Polyethylene, polypropylene plastic.



Spray Method

Can be sprayed onto the workpiece.  
Apply 2 coats.

Coverage: Approximately 8-10 m<sup>2</sup>/liters of un-mixed paint per single coat.

Drying	Fast	Medium	Slow
	Drying time	< 20°C / 68°F 50-60 mins	25°C / 77°F 20-30 mins

	Mixing Ratio	Thickness Per Coat
Plastic Primer	Ready for use	10-15 μ

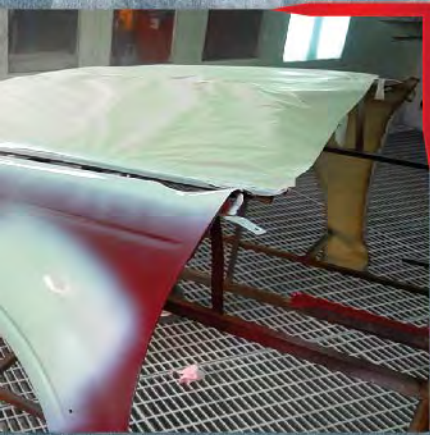
Packing Size			
82-8004	Plastic Primer	1	liter






**COATING IS A  
EASY AS**

**BIC** **BEN**



**EVER.**

A person wearing a green hoodie is shown from the side, focused on sanding a grey car body panel. They are using a circular sanding disc. The background is slightly blurred, showing a yellow and black striped pattern, possibly a workshop or garage setting. The overall lighting is bright, highlighting the texture of the sandpaper and the metallic surface of the car.

# BODY FILLER

➤ BODY FILLER TYPICALLY REFERS TO HEAVY WEIGHT POLYESTERBASED PUTTY WHICH FILL THE LARGE OR DEEP DENTED AREA, WHILE PUTTY REFERS TO LIGHT WEIGHT WHICH COVERS SANDING MARKS, PINHOLES, OR SCRATCHES.

➤ BICBEN ALSO OFFER 2K PUTTY WHICH CAN FUNCTION AS BOTH HEAVY WEIGHT AND LIGHT WEIGHT PUTTY. TRADITIONAL 1K N/C PUTTY IS ALSO AVAILABLE.

**2K PUTTY** ◀

Available in following shades:

83-4005



**Product details**

**Feature:** two component Red Putty that use as body filler for small and large dent area. It is provides excellent adhesion to all metals. In addition, it can be apply direct to metal or on primer. It's can used as heavy build filler without affecting the gloss of top/base coat.



**How to use**

Apply thin layer (<3 mm). Slow build the layer until achieve your target thickness. Be careful when mixed with hardener, pot life is 3-4 minutes at 30°C / 86°F Allow 8-10 minutes flash off time between layers at 30°C / 86°F

Drying	Hardener
	21-42
Gel time	2-3 mins
Ready to sand	30-40 mins

Mixing Ratio	
2K Putty : Body Filler Hardener	100 : 1-3%

Packing Size			
83-4005/2	2K Putty	1	kg
21-42/S	Hardener	0.25	kg
83-4005	2K Putty	2	kg
21-42	Hardener	0.5	kg

Related Products	
21-42	Hardener for 2K Putty



**POLYESTER PUTTY** ◀

Available in following shades:

83-6200



**Product details**

**Feature:** Yellow Putty BBP/RGB is two component Putty yellow that use as body filler for small and large dent area. It's provides excellent adhesion to all metals In addition, it can be apply direct to metal or on primer. It's can used as heavy build filler without affecting the gloss of top/base coat.



**How to use**

Apply thin layer (< 3 mm). Slow build the layer until achieve your target thickness. Be careful when mixed with hardener, pot life is 3-4 minutes at 30°C / 86°F. Allow 8-10 minutes flash off time between layers at 30°C / 86°F.

Drying	Hardener
	21-67
Gel time	2.5-3 mins
Ready to sand	30-40 mins

Mixing Ratio	
Polyester Putty : Body Filler Hardener	100 : 1-3%

Packing Size			
83-6xxx	Polyester Putty	1	kg
21-67/S	Hardener	0.25	kg
83-6xxxL	Polyester Putty	4	kg
21-67	Hardener	0.8	kg

Related Products	
21-67	Hardener for Polyester Putty



**BODY FILLER** ◀

Available in following shades:

83-4001



**Product details**

**Feature:** two component Red Putty that use as body filler for small and large dent area. It is provides excellent adhesion to all metals. In addition, it can be apply direct to metal or on primer. It's can used as heavy build filler without affecting the gloss of top/base coat.



Apply thin layer (<3 mm). Slow build the layer until achieve your target thickness. Be careful when mixed with hardener, pot life is 3-4 minutes at 30°C / 86°F. Allow 8-10 minutes flash off time between layers at 30°C / 86°F.

Drying	Hardener
	21-3
Gel time	4-5 mins
Ready to sand	30-40 mins

Mixing Ratio	
Body Filler : Body Filler Hardener	100 : 1-3%

Packing Size			
83-4xxx	Body Filler	1	kg
21-3/S	Hardener	0.25	kg
83-4xxxL	Body Filler	4	kg
21-3	Hardener	0.8	kg

Related Products	
21-3	Hardener for Body Filler



**NITROCELLULOSE PUTTY** ◀

Available in following shades:

- 83-4000
- 83-0348



**Product details**

**Feature:** is a single component . It is a quick dry used for the final touch to get rid of pinholes, scatches, or sanding marks before final top coat.



Ready to use product. If putty becomes too thick, dilute with acrylic thinner

Drying		Times
Gel time		3-4 mins
Ready to sand		30 mins

Packing Size			
83-4000	Nitrocellulose Putty	1	kg
83-0348	Nitrocellulose Putty	1	kg





**CONSISTENCY**  
*AND*  
**QUALITY**

**ARE OUR KEY INGREDIENTS.** 

# TOP COAT

► BICBEN offers complete series of automotive refinish top coat. Applicators can select single-stage process (2K Solid Top Coat) or two-stage process (Basecoat with clear coat on Top).

► The top coat can be produced from Universal Tinting System.

# ▶ TOP COAT WITH HARDENER

(SINGLE STAGE PROCESS)

46 LINE

**2K HIGH SOLID 2:1** FINISH ◀◀



## Product details

**Feature:** is a 2K quality top coat. With high solid content and UV absorber, it gives excellent protection against UV Light and harsh environments. The final high gloss finish film can last long as OEM paint. Typically, it is used for whole body repaint or bus and truck coating. All 2K High Solid 2:1 Finish can be mixed at your local dealer with Big-Ben® Universal Tinting System.



Spray Method

Apply 2 coats Recommended.

Pot life: 4 hours at 30°C

Coverage: Approximately 8-10 m<sup>2</sup>/liters

Drying	Fast	Medium	Slow
	20°C / 68°F	25°C / 77°F	30°C / 86°F
	21-87	21-87	21-87
Dust free time	30 min	20-30 min	20 min
Dry to handle	9-10 hr	9-10 hr	7-8 hr
Dry to polish	9-10 hr	9-10 hr	7-8 hr

Mixing Ratio	Thickness Per Coat
2K HS Finish : Top Coat Hardener : Top Coat Thinner	30-40 μ
	2 : 1 : 5-10%

Packing Size			
46-XXXX	2K HS Finish 2:1	1	liter
21-87/2	Hardener	0.25	liter
46-XXXXL	2K HS Finish 2:1	4	liters
21-87	Hardener	1	liter

Related Products	
21-87	Hardener for 2K HS Finish 2:1
86-120	BICBEN@2K Thinner



# ▶ TOP COAT WITH HARDENER (SINGLE STAGE PROCESS)

48 LINE

**2K MEDIUM SOLID 2:1** ◀  
**FINISH**



## Product details

**Feature:** is an economic version of 2K 2:1 finish. It is ideal for spot or panel repair because of faster drying time compared with High Solid System. It offers high gloss finish and good retention. All 2K Medium Solid 2:1 Finish can be mixed at your local dealer with Big-Ben® Universal Tinting System.



**Spray Method**

Apply 2 coats.

Pot life: 4 hours at 30°C

Coverage: Approximately 8-10 m<sup>2</sup>/liters

Drying	Fast	Medium	Slow
	20°C / 68°F	25°C / 77°F	30-35°C / 86-95°F
	21-86	-	21-86
Dust free time	30 min	-	20 min
Dry to handle	9-10 hr	-	7-8 hr
Dry to polish	9-10 hr	-	7-8 hr

Mixing Ratio	Thickness Per Coat
2K MS Finish : Top Coat Hardener : Top Coat Thinner	30-40 μ
	2 : 1 : 1

Packing Size			
48-XXXX	2K MS Finish 2:1	1	liter
21-86/2	Hardener	0.25	liter
48-XXXXL	2K MS Finish 2:1	4	liters
21-86	Hardener	1	liter

Related Products	
21-86	Hardener for 2K MS Finish 2:1
86-120	BICBEN®2K Thinner

# ▶ TOP COAT WITH HARDENER

(SINGLE STAGE PROCESS)

47 LINE

## 2K MEDIUM SOLID 4:1 FINISH ◀



### Product details

**Feature:** is a quick dry version. It is good for garage who wants to have quick turn over for spot or panel repairs. All 2K Medium Solid 4:1 Finish can be mixed at your local dealer with Big-Ben® Universal Tinting System. It's providing high-gloss, Good hardness. Excellent in weathering resistance. It's design for large area. It's provide long pot life but short time for film setting.



Spray Method

Apply 2-3 coats.

Pot life: 4 hours at 30°C

Coverage: Approximately 9-10 m<sup>2</sup>/liters

Drying	Fast	Medium	Slow
	20°C / 68°F	25°C / 77°F	30-35°C / 86-95°F
	21-86	-	21-86
Dust free time	30 min	-	20 min
Dry to handle	9-10 hr	-	7-8 hr
Dry to polish	9-10 hr	-	7-8 hr

Mixing Ratio	Thickness Per Coat
2K MS Finish : Top Coat Hardener : Top Coat Thinner	4 : 1 : 1
	30-40 μ

Packing Size			
47-XXXX	2K MS Finish 4:1	1	liter
21-86/2	Hardener	0.25	liter
47-XXXXL	2K MS Finish 4:1	4	liters
21-86	Hardener	1	liter

Related Products	
21-86	Hardener for 2K MS Finish 4:1
86-120	BICBEN®2K Thinner



# ▶ TOP COAT WITHOUT HARDENER (TWO STAGE PROCESS)

56 LINE

**FINISH**  
**BASE COAT METALLIC** ◀◀  
**/PEARL**



## Product details

**Feature:** is a single component Top Coat for Metallic/Pearl shades. The unique character of this Top Coat is a final thin layer which in turn helps orientation of Metallic/Pearl flakes. To make sparkling effect brighter, BICBEN® Base Coat thinner is recommended. All Base Coat Metallic/Pearl Finish can be mixed at your local dealer with BICBEN® Universal Tinting System. The binder for this product is Base Coat Metallic/Pearl Binder [56-XXXX]

1K high performance basecoat for Automotive coating. It's provide good color strength, easy to spray, good adhesion over primed coated substrate. It's also able to apply direct to plastic such as ABS, PC/ABS. It's must be used in conjunction with 2K clear coat in order to provide protection from environment.



**Spray Method**

Apply 2-3 coats For effect colors, pull spray gun back around 3-4 inches on final coat. Recommended dry film thickness at 15-20 microns.

**Pot life:** 4 hours at 30°C

**Coverage:** Approximately 10-12 m<sup>2</sup>/liters

Drying	
Touch dry	Hard dry
25°C / 77°F	25°C / 77°F
5-10 min	15-20 min

Mixing Ratio	Thickness Per Coat
Base Coat : Base Coat Thinner	15-20 μ
1 : 1	

Packing Size			
56-XXXX	Base Coat	1	liter
56-XXXXL	Base Coat	4	liters

Related Products	
86-140	Acrylic Thinner
86-160	Base Coat Thinner



# ▶ TOP COAT WITHOUT HARDENER (TWO STAGE PROCESS)

30 LINE

## NITROCELLULOSE FINISH ◀

Available in following shades:

30-0001	30-3009	30-5805
30-0011	30-4011	30-6001
30-0012	30-4014	30-6005
30-0018	30-5001	30-7003
30-1002	30-5801	



### Product details

**Feature:** 1K high performance coating for Automotive coating. It's provide good color strength, easy to spray, good adhesion over primed coated substrate. It's also able to apply direct to plastic such as ABS, PC/ABS. It's can be used in conjunction with 2K clear coat in order to environmental protection. It gives a shortest drying time. It is highly recommended to put clear coat on top. The application is widely used in bus and truck coating where multi-color is needed. The binder for this product is Nitrocellulose Solid Binder [30-8008].



Spray  
Method

Spray 2-3 coats with the flash off time 15 minutes. Pot-life after mixing is 6 hours. (depending on environment).

**Coverage:** Approximately 10-12 m<sup>2</sup>/liters

#### Drying

Touch dry	Hard dry
25°C / 77°F	25°C / 77°F
7-10 min	30-45 min

#### Mixing Ratio

Mixing Ratio	Thickness Per Coat
Nitrocellulose Finish : Acrylic Thinner	15-20 μ

#### Packing Size

30-XXXX	Nitrocellulose (N/C) Finish	4	liters
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#### Related Products

86-100	Acrylic Thinner
86-104	Acrylic Thinner



# ▶ TOP COAT WITHOUT HARDENER (TWO STAGE PROCESS)

55 LINE

## ACRYLIC FINISH ◀



### Product details

**Feature:** single pack top coat. It offers high gloss finish. The advantage is quick dry and non-yellowing finish. To enhance gloss, you may apply clear coat on top. It is recommended to use premium grade Bic-Ben® Acrylic thinner #86-101 or higher to maximize the final gloss appearance. All Acrylic Finish can be mixed at your local dealer with Bic-Ben® Universal Tinting System. The binder for this product is Acrylic Solid Binder #54-8100



#### Spray Method

Spray 2-3 coats with the flash off time 15 minutes. Pot-life after mixing is 6 hours. (depending on environment).

**Coverage:** Approximately 13-15 m<sup>2</sup>/liters

### Drying

Touch dry	Hard dry
25°C / 77°F	25°C / 77°F
5-7 min	1-2 hr

### Mixing Ratio

### Thickness Per Coat

Acrylic Finish : Acrylic Thinner	1 : 1-1.5	30-40 μ
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### Packing Size

55-XXXX	Acrylic Finish	1	liter
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### Related Products

86-104	Acrylic Thinner
86-123	Acrylic Thinner





THE  
**COST** OF WORK IS  
NOT VERY **HIGH.**



# CLEAR COAT

is an  
econom-  
ic fast

► BICBEN offers different types of clear to meet with your needs at different mixing ratios.

► The easy-spraying clear gives you a high gloss and quick drying time. Clear can be used for whole body repaint or panel and spot repairs.

# ➤ LACQUER / CLEAR COAT

46 LINE

2K HIGH SOLID  
LACQUER 2:1 ◀



## Product details

**Feature:** is a premium quality fast drying lacquer. It normally recommends for whole body repaint or bus and truck coating.



Spray  
Method

Apply 2-3 coats. Recommended dry film thickness at 60-80 microns.

Pot life: 4 hours at 30°C

Coverage: Approximately 8-10 m<sup>2</sup>/liters

Drying	Fast	Medium	Slow
	< 20°C / 68°F	25°C / 77°F	30-35°C / 86-95°F
	-	21-07	-
Touch dry	-	15-20 min	-
Hard dry	-	24 hr	-

## Mixing Ratio

2K HS Lacquer : Lacquer Hardener : Lacquer Thinner

2 : 1 : 10-15%

## Packing Size

Code	Description	Quantity	Unit
46-8007L	2K HS Lacquer 2:1	4	liters
21-07	Hardener	1	liter

## Related Products

21-07	Hardener for 2K HS Lacquer 2:1
86-120	BICBEN@2K Thinner



### 2K MEDIUM SOLID LACQUER 2:1 ◀



#### Product details

drying lacquer 2:1. It is used for spot or panel repair. It has good flow and easily blends with original paints.



Spray  
Method

Apply 2-3 coats. Recommended dry film thickness at 50-60 microns.

Pot life: 4 hours at 30°C

Coverage: Approximately 8-10 m<sup>2</sup>/liters

Drying	Fast	Medium	Slow
	< 20°C / 68°F	25°C / 77°F	30-35°C / 86-95°F
Touch dry	-	21-86	-
Hard dry	-	10-15 min	-
	-	24 hr	-

#### Mixing Ratio

2K MS Lacquer : Lacquer Hardener : Lacquer Thinner

2 : 1 : 10-15%

#### Packing Size

46-8099	2K MS Lacquer 2:1	1	liters
21-86/2	Hardener	0.50	liter
46-8099L	2K MS Lacquer 2:1	4	liters
21-86	Hardener	1	liter

#### Related Products

21-86	Hardener for 2K MS Lacquer 2:1
86-120	BICBEN@2K Thinner



# ➤ LACQUER / CLEAR COAT

47 LINE

## 2K MEDIUM SOLID LACQUER 4:1 ◀



### Product details

**Feature:** is the quick dry version with the mixing ratio 4:1 It is ideal for spot or panel repair. it offers high gloss finish



**Spray Method**

Apply 2-3 coats. Recommended dry film thickness at 50-60 microns.

**Pot life:** 4 hours at 30°C

**Coverage:** Approximately 8-10 m<sup>2</sup>/liters

Drying	Fast	Medium	Slow
	< 20°C / 68°F	25°C / 77°F	30-35°C / 86-95°F
	-	21-85	-
Touch dry	-	3-5 min	-
Hard dry	-	24 hr	-

### Mixing Ratio

2K MS Lacquer : Lacquer Hardener : Lacquer Thinner

4 : 1 : 1

### Packing Size

47-8033	2K MS Lacquer 4:1	1	liters
21-85/2	Hardener	0.50	liter
47-8033L	2K MS Lacquer 4:1	4	liters
21-85	Hardener	1	liter

### Related Products

21-85	Hardener for 2K MS Lacquer 4:1
86-120	BICBEN@2K Thinner



# GLOSS OF LACQUER



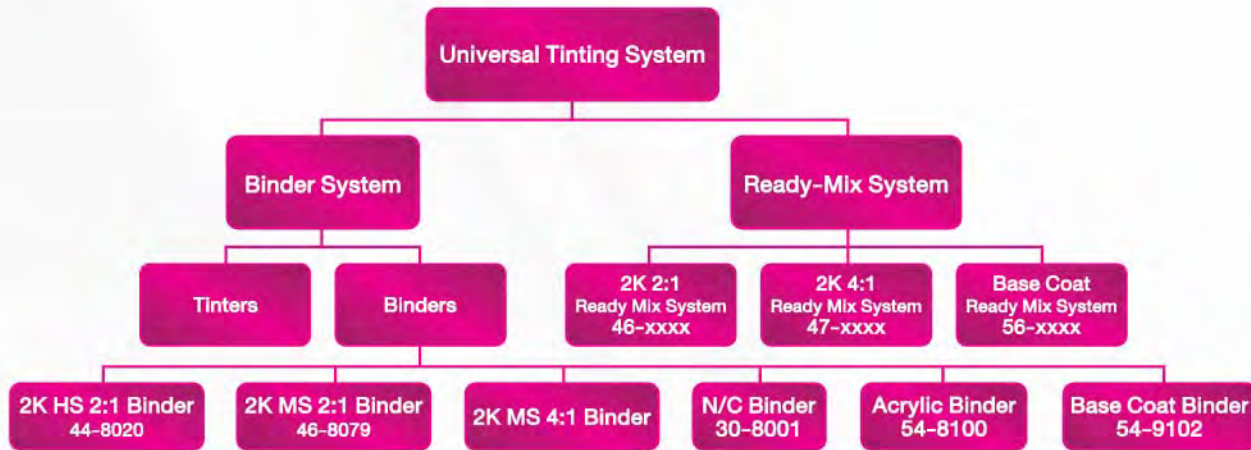
SIMPLIFY  
OUR  
**WEPRODUCT**  
TO FINISH YOUR PAINT EASIER

# UNIVERSAL TINTING SYSTEM

► With automotive grade pigments, BICBEN creates the UNIVERSAL TINTING SYSTEM which can produce complete refinish top coats, except enamel finish. The system can be flexible because you can choose either binder system or ready-mix system.

► Binders include: 2K polyurethane single stage top coat at different solid, and base coat, etc. TINTING software helps to retrieve car color formulation up to 5,000+ formulations. Finally the system can also be used with LE Series to comply with VOC regulations.

# ▶ TINTING SYSTEM



## ▶ BINDER SYSTEM ◀

tem consists of tinters and binders. Tinters are high pigmente  
You will select the binder to the type of topcoat you want to produce.

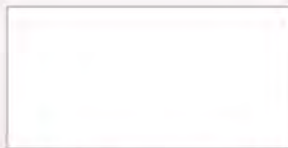


## ▶ READY-MIX SYSTEM ◀

Is the mixing system that already incorporated binder into tinters.  
NO need to add binder later. Big-Ben offers 2 types of ready-mix system.



# ➤ BASIC COLOUR TINTER



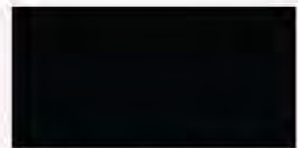
600-WH1L White



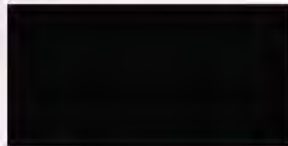
600-RWH2 Light White



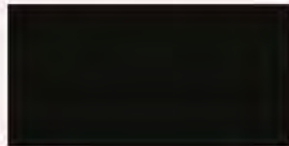
600-OP3 Opalescence



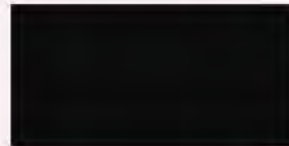
600-BK4 Carbon Black



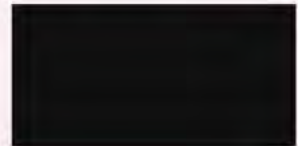
600-BK5L Jet Black



600-BK6 Black High Strength



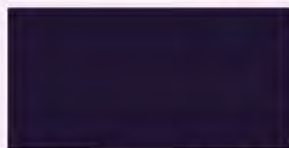
600-RBK7 Black Low Strength



600-BK8 Graphite



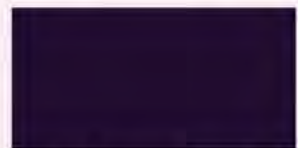
600-VT20 Violet



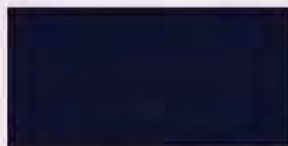
600-TBL21 Thalo Blue



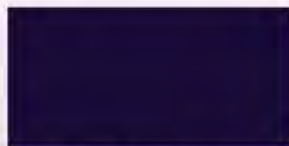
600-TBL22 Blue High Strength



600-TBL26 Organic Blue



600-TBL27 Transparent Blue



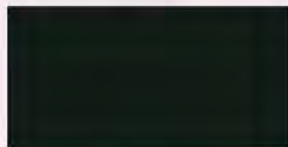
600-TBE28 Fast Blue High Strength



600-TBL29 Palo Blue



600-RBL70 Fast Blue Low Strength



600-TGR30 Fast Green High Strength



600-TGR31 Fast Green Low Strength



600-TGR32 Green Yellow



600-TYL33 Green Gold



600-TYL41 Bright Yellow



600-YL42 Green Yellow



600-YL44 Red Yellow



600-TYL45 Transparent Yellow



600-TYL46 Orange Yellow



600-YL81 Yellow Oxide High Strength



600-RYL82 Yellow Oxide Low Strength



600-TYL90 Transparent Yellow



600-RD50 Brilliant Red



600-RD53 Red Orange



600-TRD55 Light Red



600-TRD57 Bright Red

► **BASIC COLOUR**  
TINTER



600-TRD62 Transparent Red



600-TRD63 Red Ruby



600-TRD64 Magenta Blue



600-TRD66 Red Violet



600-RD84 Red Oxide  
High Strength



600-RRD84 Red Oxide  
Low Strength



600-TRD85 Transparent Maroon



600-TRD86 Opaque Red



600-TRD91 Transoxide Red  
Transparent



600-TRD93 Transoxide Brown  
Transparent

**COLOUR**

**MORE**



## ▶ PEARL COLOUR TINTER



600-26PL73 White  
Pearl Translucent



600-25PL732 Medium White  
Pearl



600-17PL735 Crystal  
Silver Xirallic



600-617PL735 Crystal  
Silver Xirallic



600-27PL76 Gold  
Pearl Translucent



600-42PL765 Sunbeam  
Gold Xirallic



600-29PL78 Aluminium Gold  
Pearl Translucent



600-61PL979 Orange Pearl



600-30PL77 Copper  
Pearl Opaque



600-31PL72 Russet  
Pearl Opaque



600-41PL721 Satin Red Pearl



600-618PL725 Radiant  
Red Xirallic



600-13PL724 Interference Red  
Pearl Translucent



600-22PL74 Blue Pearl  
Translucent



600-21PL741 Satin Blue  
Pearl Translucent



600-644PL745 Galaxy  
Blue EFY



600-23PL75 Super Green  
Pearl Translucent



600-643PL755 Stellar  
Green Xirallic



600-32PL79 Violet  
Pearl Translucent



→ **BIG-BEN**  
(PAINTS)  
[WWW.BICBEN.COM](http://WWW.BICBEN.COM)

## ► BRONZE COLOUR TINTER



600-RGB10 Fine Bronze



600-RGB11 Medium  
Fine Bronze



600-RGB13 Medium  
Coarse Bronze



600-RGB14 Coarse Bronze



600-RGB17 Fine  
Bright Bronze



600-RGB23 Very  
Fine Bronze



600-RGB95 Bright  
Coarse Bronze



600-RGB97 Fine Extra  
Bright Bronze




600-RGB98 Medium Fine Extra  
Coarse Bronze



600-RGB99 Extra  
Coarse Bronze

EASY AS EVER.

COLOUR  
MORE+



# THINNER

► BICBEN produces a wide range of thinner to meet your applications and requirements. Different temperature and products will affect thinner selection.

► Packaging available includes: 1L, 4L, 18L, and 200L.

## ► THINNER

### STANDARD THINNER ◀◀

is typically used for primer and sometimes N/C top coat. Additionally, it can be used to clean the surface before any subsequent coating process. It is quick dry and non-burning sensation when wash with your hand.

- Standard Thinner

### ACRYLIC THINNER ◀◀

is a higher grade than standard thinner. It normally uses to apply primer and 1K top coat e.g. acrylic top coat and N/C top coat. It helps to improve the gloss of 1K top coat.

- Acrylic Thinner Premium
- Acrylic Thinner Standard
- Acrylic Thinner 3602

### 2K THINNER ◀◀

is designed to use with 2K products especially for 2K top coats. Big-ben has

- 2K Thinner Fast
- 2K Thinner Medium
- 2K Thinner Slow
- 2K Thinner Extra Slow

### BASE COAT THINNER ◀◀

Designs to promote orientation of base coat and to enhance adhesion between primer and clear coat.  
Base Coat Thinner

### LE THINNER ◀◀

Low VOCs compliant thinner. LE Thinners include:

- LE Primer Thinner
- LE Base Coat Thinner
- LE 2K Thinner Slow
- LE 2K Thinner Fast
- LE 2K Thinner Medium
- LE 2K Thinner Extra Slow
- LE 2K Exempt Thinner

### OTHER THINNER ◀◀

Includes Epoxy Thinner 85-47, Wash Primer

Thinner 86-114, 2K Primer Thinner 86-115, Enamel Thinner 85-5, Blending Thinner 86-160, Retarder Thinner 86-123

- Acetone
- Xylene
- Toluene
- Solvent 3040
- Solvent 1425



# THINNER

BIC/BEN	PRODUCT CODE - NAME						
	85-242	86-100	86-104	86-161	86-361	86-362	86-363
	Turpentine	Standard Thinner	Acrylic Thinner	Base Coat Thinner	2K Reducer Quick Dry	2K Reducer Medium Dry	2K Reducer Slow Dry
CLEANING	✗	✓	✓	✗	✓	✓	✓
1K PRIMER	✗	✓	✓	✗	✓	✓	✓
2K PRIMER	✗	✗	✓	✗	✓	✓	✓
1K TOP COAT N/C, Acrylic	✗	✓ Low Gloss	✓	✗	✓ High Gloss	✓ High Gloss	✓ High Gloss
1K TOP COAT Enamel	✓ High Gloss	✗	✓	✓	✓	✓	✓
BASE COAT	✗	✗	✗	✓	✓	✓	✓
2K TOP COAT	✗	✗	✓ Low Gloss	✗	✓	✓	✓
2K LACQUER	✗	✗	✓ Low Gloss	✗	✓ High Gloss	✓ High Gloss	✓ High Gloss

	Fast	Medium	Slow	Extra Slow
	< 20°C / 68°F	25°C / 77°F	30-35°C / 86-95°F	> 40°C / 104°F
Cleaning	86-116		86-120	
Base Coat				
2K Top Coat				
2K Clear				

# DEGREASER



Product details				
Feature	Is designed as for surface preparation sanding or body works, and as a cleaner before top coat or clear coat. It helps to remove adhesives, dirt, dust, fingerp			
Type	85-4	Degreaser (Fast)		
	85-7	Degreaser (Slow)		
Packing Size	85-X	Degreaser	1	liter
	85-XL	Degreaser	4	liters



OUR

# PAIN<sup>IS</sup> DESIGNED

FOR SPOT REPAIR OR BODY REPAINT.



# LE SERIES

► BICBEN, LE SERIES ARE AUTOMOTIVE REFINISH PRODUCTS COMPLYING WITH LOW VOCs REGULATION.

► IT INCLUDES: LE PRIMER, LE BASE COAT, AND LE CLEAR.

LE PRIMER ◀

Available in following shades:

80-0346



Product details

**Feature:** is a two-component polyurethane primer that contains high solid resin as the first part and isocyanate as the second part. It provides excellent adhesion to all metals and protects against harsh conditions that can cause rust on steel surface. The product ready to spray VOC is 340 grams per liter (2.8 lbs./U.S. gal.).



Spray Method

Apply 2 coats Recommended dry film thickness at 50-60 microns.

Pot life: 4 hours at 30°C

Coverage: Approximately 8-10 m<sup>2</sup>/liters

Drying

Touch dry	Hard dry
25°C / 77°F	25°C / 77°F
10-15 min	30-40 min

Mixing Ratio

Mixing Ratio	Thickness
LE Primer : LE Hardener	30-40 μ

Packing Size

80-XXXX	LE Primer	1	liter
21-XX/2	LE Hardener	0.25	liter
80-XXXXL	LE Primer	4	liters
21-XX	LE Hardener	1	liter

Related Products

21-XX	LE Primer Hardener
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LE 2K FINISH ◀



Product details

**Feature:** is a two-component polyurethane top coat 2:1 . It offers easy application, good flow, superior gloss, and durability. The ready to spray VOC is less than 420 grams per liter (3.5 lbs/U.S.gal.). LE 2K Finish can be formulated from Universal Tinting System. The binder is LE 2K Binder #440-8021. Mixing ratio between tinters and binder is 30 to 70.



Spray Method

Apply 2 coats Recommended dry film thickness at 30-40 microns.

Pot life: 4 hours at 30°C

Coverage: Approximately 8-10 m<sup>2</sup>/liters

Drying	Fast	Medium	Slow
	20°C / 68°F	25°C / 77°F	30°C / 86°F
	21-060	21-070	21-080
Dust free time	30 min	20-30 min	20 min
Dry to handle	9-10 hr	9-10 hr	7-8 hr
Dry to polish	9-10 hr	9-10 hr	7-8 hr

Mixing Ratio	Thickness Per Coat
LE 2K Finish : LE Hardener : LE Thinner	2 : 1 : 5-10% 30-40 μ

Packing Size			
440-XXXX	LE 2K Finish 2:1	1	liter
21-XX/2	LE 2K Hardener	0.25	liter
440-XXXXL	LE 2K Finish 2:1	4	liters
21-XX	LE 2K Hardener	1	liter

Related Products	
21-060	LE 2K Hardener 2:1 Fast
21-070	LE 2K Hardener 2:1 Standard
21-080	LE 2K Hardener 2:1 Slow

LE BASE COAT ◀



Product details

**Feature:** Provides excellent metallic control and orientation. It is quick dry and good adhesion to LE Clear. The product ready to spray VOC is less than 420 grams per liter (3.5 lbs./U.S. gal.). Like LE 2K Finish, LE Base Coat can be formulated from Universal Tinting System. The binder is LE Base Coat Binder #54-9008. Mixing ratio between tinters and binder is 30 to 70.



Spray Method

Apply 2 coats. For effect colors, pull spray gun back around 3-4 inches on final coat. Recommended dry film thickness at 15-20 microns.

Pot life: 4 hours at 30°C

Coverage: Approximately 10-12 m<sup>2</sup>/liters

Drying

Touch dry	Hard dry
25°C / 77°F	25°C / 77°F
5-10 min	15-20 min

Mixing Ratio

Thickness Per Coat

LE Bass Coat : LE Thinner	1 : 1	15-20 μ
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Packing Size

560-XXXX	LE Base Coat Finish	1	liter
85-XX/2	LE Base Coat Thinner	0.25	liter
560-XXXXL	LE Base Coat Finish	4	liters
85-XX	LE Base Coat Thinner	1	liter

Related Products

85-XXXX	LE Base Coat Thinner
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LE 2K CLEAR ◀

Available in following shades:

440-8007



Product details

**Feature:** Is a two-component high solid clear coat for whole body repaint or panel and spot repair. It has excellent flow, easy to use, high gloss and excellent weathering resistance. The ready to spray VOC is less than 340 grams per liter (2.8 lbs./U.S.gal.). When use LE Exempt Thinner, VOC is less than 250 grams per liter (2.1 lbs./U.S.Gal.).



Spray Method

Apply 2-3 coats.

Pot life: 4 hours at 30°C

Coverage: Approximately 8-10 m<sup>2</sup>/liters

Drying	Fast	Medium	Slow
	< 20°C / 68°F 21-060	25°C / 77°F 21-070	30-35°C / 86-95°F 21-080
Touch dry	-	15-20 min	-
Hard dry	-	24 hr	-

Mixing Ratio

LE 2K Lacquer : LE Hardener : LE Thinner	2 : 1 : 10-15%
--	----------------

Packing Size

440-XXXX	LE 2K Clear 2:1	1	liter
21-XX/2	LE 2K Hardener	0.25	liter
440-XXXXL	LE 2K Clear 2:1	4	liters
21-XX	LE 2K Hardener	1	liter

Related Products

21-060	LE 2K Hardener 2:1 Fast
21-070	LE 2K Hardener 2:1 Standard
21-080	LE 2K Hardener 2:1 Slow



**WE**   
**COMMIT TO BRING**  
THE ENVIRONMENT-FRIENDLY  
**PRODUCT TO YOU.**



**BUS**

**AND**

**TRUCK**

## Direct to Metal Primer ◀

Product	Hardener	Thinner	Mixing Ratio
Etch Primer for Stainless /Aluminum	21-24	86-100	1 : 1 N/A
Epoxy Primer for metal	21-17	86-147	4 : 1 : 1-3

## Polyester Putty ◀

Product	Hardener	Mixing Ratio
Heavy Weight Polyester Putty	21-3	100 : 3
Light Weight Polyester Putty	21-67	100 : 3
2K Universal Polyester Putty	21-42	100 : 3
1K Quick Dry Glazing Putty	N/A	RFU

## Primer before Paint (Filler & Sealer) ◀

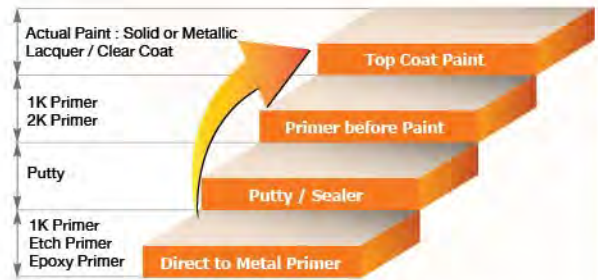
Product	Hardener	Thinner	Mixing Ratio
2K PU Primer	21-20	86-115	4 : 1 : 1-3
1K Acrylic Primer	N/A	86-101	1 : N/A : 1

## Top Coat Paint ◀

Product	Hardener	Thinner	Mixing Ratio
2K or Acrylic Metallic and Pearl Base Coat	N/A	86-120	1 : N/A : 1
1K Nitrocellulose Top Coat	N/A	86-100	1 : N/A : 1
2K Solid Top Coat 2:1	21-07	86-116 86-120 86-161	2 : 1 : 10-15%
2K Solid Top Coat 4:1	21-33	86-116 86-120 86-161	4 : 1 : 10-15%

## Clear Coat or Lacquer ◀

Product	Hardener	Thinner	Mixing Ratio
2K High Solid Clear Coat 2:1	21-07	86-116 86-120 86-161	2 : 1 : 10-15%
2K Medium Solid Clear Coat 4:1	21-33	86-116 86-120 86-161	4 : 1 : 10-15%



## Coating System for Bus & Truck ◀

<b>Direct Primer on Substrate</b> Bare Steel Aluminum or Stainless	Epoxy Primer Etch Primer
<b>Putty</b>	Polyester Putty
<b>Primer before Top Coat</b>	2K Primer
<b>Top Coat</b> Solid Shade Few Shades Multi Shades Bronze and Pearl Shade or Base Coat Clear System	2K Paint N/C or Acrylic Paint and top up with 2K Lacquer 2K or Acrylic Base Coat and top up with 2K Lacquer



# INDUSTRIAL COATINGS



► BICBEN ALSO OFFERS AN BBP INDUSTRIAL COATING PRODUCTS INCLUDING:

► N/C INDUSTRIAL PRIMER, ENAMEL PRIMER, N/C INDUSTRIAL PAINT, ENAMEL INDUSTRIAL PAINT.

## N/C INDUSTRIAL PRIMER <<



Is a economic quick dry primer. It has good adhesion on steel and galvanized surfaces. It also contains anti-corrosive pigments hence good for mild steel substrate or in case of rubbing through bare metal.

Available in 1L and 4L.

Available in following shades:

84-1006

84-6003

## ENAMEL INDUSTRIAL PRIMER <<



Is a phenolic modified primer suitable for steel substrate such as solvent tankers, trucks, where corrosion protection is a prime factor. It is also non-bleeding primer which can be coated with N/C Industrial Paint or Enamel Industrial Paint.

Available in 1L and 4L.

Available in following shades:

1007

6052

4001

0081

## N/C INDUSTRIAL PAINT <<



Is an economical nitrocellulose top coat for industrial purpose. It is quick drying and has a variety selection of shades.

Available in 1L and 4L.

Available in following shades:

32-0002

32-0003

32-1015

32-1017

32-3008

32-4013

32-5001

32-5805

32-6011

32-7000

## ENAMEL INDUSTRIAL PAINT <<



Is general purpose enamel coating where one coat application is required for economic reason.

Available in 1L and 4L.

Available in following shades:

39-0004

39-0020

39-4021

39-5001

39-7000

43-0001

50-1007

50-6052

58-3016

80-0094

80-6000

80-6070

81-H0008

81-0081

82-6004

84-1006

84-3004



# MISCELLANEOUS

► BICBEN also offers an A Plus industrial coating products including:

N/C Industrial Primer, Enamel Primer,  
N/C Industrial Paint, Enamel Industrial Paint.

## MID-COAT ADHESION PROMOTER <I



Is a transparent liquid which helps to promote adhesion between base coat and clear coat, especially where it is difficult to sand in some area. It is ready for use product. Apply just only single layer before clear coat.

Available in 1L.

## MATTING AGENT <I



Is a universal matting agent #17-8002. It is a part of Universal Tinting System. It can be used in top coat or clear coat. It should not be added more than 10% of total mixture to avoid adhesion problem.

Available in 1L.

## COAL TAR EPOXY <I



Is a two-component polyamida cured resin. It is used for long term protection against corrosion under extreme condition. With high build property, it gives non-sagging films up to 20-millimeter thickness in just a single coat of spray. Normally it is recommended to apply underneath vehicles where wear and tear are high due to chemical and mechanical attack.

- Coal Tar Epoxy BLACK #43-0001
- Coal Tar Epoxy Hardener #21-10
- Epoxy Thinner #85-47

Available in 1L and 4L.

## PLASTIC FLEXIBLE ADDITIVE <I



Is a chemical added to plastic coating products including plastic primer, top coat, and clear coat. It enhances flexibility of film coat. Plastic Flexible Additive #81-8010 should not be added more than 10% of volume of paint.

Available in 1L.

## TACK CLOTH <I



Is ready to use single-pack cleaning cloth with degreaser. It helps to remove adhesives, fingerprint, grease, oil, silicon, sanding residue, or wax on the surface.

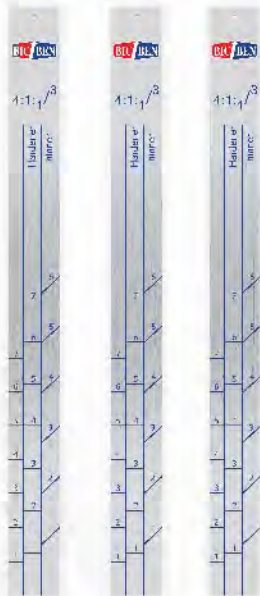
Available in 100 cloth per box.



**SOTA@ SAND PAPER ◀**

Sota@ Waterproof sand paper or abrasive paper is made from latex paper for long lasting and reusability. Ultra-flexibility helps easy edge sanding. Applicable for both wet and dry sanding. Standard size is 230 x 280 mm (9 x 11 inches).

Available in grit number :  
 P60, P80, P100, P120, P150, P180, P 220, P240, P280, P320, P400, P600, P1000, P1200, P1500 and P2000.



**MIXING STICK ◀  
 FOR PAINT**

- Mixing #2:1 and #4:1
- Mixing #3:1



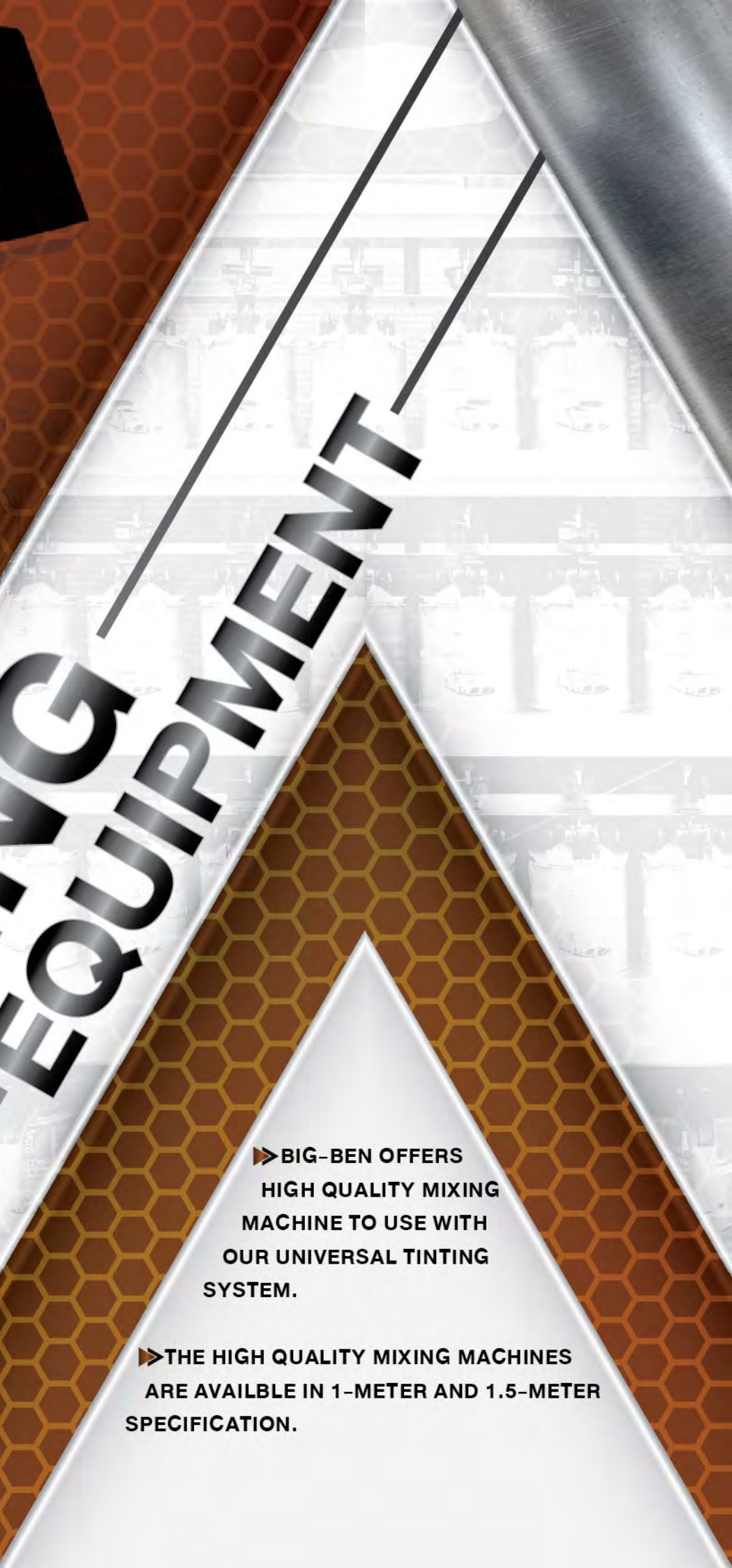
**HVLP SPRAY GUN ◀**

For top coat and general purpose gravity feed

Mixing shelf	HVLP
Nozzle Range	1.0 - 2.0 mm
Pattern (1.33 mm)	200 - 400 mm
	7.9 - 9.4 in
Recommended air inlet pressure	2.0 bar 29 psi
weight (gun only)	498 grams
Material	Aluminum die-casted/forged
Body	Special selected brass
Air Cap	High grade stainless steel
Nozzle/Fluid Tip	High grade stainless steel
Needle	High grade stainless steel



**PROUD** TO BE A  
**PARTNER** OF YOUR SUCCESS.



# MIXING EQUIPMENT

► **BIG-BEN OFFERS HIGH QUALITY MIXING MACHINE TO USE WITH OUR UNIVERSAL TINTING SYSTEM.**

► **THE HIGH QUALITY MIXING MACHINES ARE AVAILABLE IN 1-METER AND 1.5-METER SPECIFICATION.**

# ► BIC-BEN® FLEXI ESSENTIAL MIXING MACHINE SET

## DIMENSION AND SPECIFICATION

	1-Meter	1.5-Meter
<b>Mixing Shelf</b>	<b>Mixing Heads per Shelf</b>	
<b>1L x 5 Shelves</b>	8	12
<b>4L x 1 Shelf</b>	5	8
<b>Length</b>	1155 mm. 45.47 in.	1620 mm. 63.77 in.
<b>Height</b>	63.77 in. 78.54 in.	1995 mm. 78.54 in.
<b>Depth</b>	78-54 in. 20.86 in. 20.86 in.	530 mm. 530 mm. 20.86 in.

- Standard mixing shelf will have 6 shelves: 5 shelves x 1L and 1 shelf x 4L. However, it can be customized to meet your requirement e.g. 4 shelves x 1L and 2 shelves x 4L.
- Non-Atex motor module (complies with EU requirements). 750w – 50/60 Hz with electronic control box

## MIXING LIDS: 1L AND 4L ◀◀



- Ready to use: fully assembled with no loss time
- Redesigned pouring spout for continuous paint flow and accurate dosing control.
- Improved sealing system.
- Anti-adhesive shutter to prevent pouring spout and shutter from sticking when paint dries.
- Ergonomic and comfortable handle grip.

## MIXING SCALE: SARTORIUS ◀◀



- Up to 10 kilograms
- +/- 0.01 gram

# PRODUCT PORTFOLIO

## ✓ AUTOMOTIVE REFINISH

- BODY FILLER | PUTTY | MASILLA
- PRIMER : EPOXY | WASH PRIMER | 2K | ACRYLIC  
| NC | ENAMEL
- PAINTS / PINTURA : READY MIX | 2K | BASE COAT  
| NC | ENAMEL
- MIXING SYSTEM : TINTER | TONER | BINDER
- LACQUER : 1K | 2K | HS | MS | LE | 2:1 | 4:1
- THINNER / REDUCER / SOLVENT
- MISC. : AEROSOL / POLISHING WAX  
/ RUBBING COMPOUND

## ✓ INDUSTRIAL COATING

## ✓ HIGH PROTECTIVE COATING

## ✓ CONTAINER COATING

## ✓ UNIVERSAL TINTING SYSTEM



### 🏭 FACTORY 1

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### 🏭 FACTORY 2

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