



BOND COAT-ESC-01

EPOXY SURFACE COATING

EPOXY based polymer of gloss and adhesion improver are suitable for wood and ceramic laminating and specially formulated for **Jewellery , stone and wood** coating and for colored **MEENA** application. And specially for stone / wood coating and filling crack and inlay applications. Ideally suitable for this application, provide clear, blush free, glossy, solvent free, high build coatings.

WHERE TO USE:-For Jewellery Meena, Gift articles, God idols, Key chain, wood, Marble, natural stone, concrete, ceramics, glass, ornamental metal, Appliances, Machineries, wall, Electric & electronics instruments, LED Encapsulating, Paver block and Tiles, Table top, Specially formulated for Inlay in stone and wood, etc.

METHOD OF USE:- FOR SMALL ARTICALS (1) SURFACE PREPARATION:- Surface should be Dry, clean, even and free from dust, dirt, paint, rust, Algee, grease, soluble salt, or other contaminations and Damp free. (2) Heat the substrate / item that should be treated (3) Mix the polymer in proper ratio and remove bubbles by applying heat (40 oC) for some time and vacuum the bubbled Air. (4) Apply the mixed polymer clear / colored (Add small drop quantity for light color and add more drop quantity for dark color in to the clear polymer. (5) Stoving should be done in closed oven for hard and glossy look. (6) Maintain temperature 40-60 oC for better results.

Mix equal volumes of Part A and Part B. The two parts must be thoroughly mixed together to obtain a properly cured coating. The pot life of this system is about 20 -30 minutes. Coatings of this type should be applied to horizontal surfaces. The object to be coated should be elevated from the work surface by a pedestal smaller in diameter than the object so the coating can flow freely off the edges. As soon as the coating is mixed, it should be poured over the object and, if necessary, spread with a brush to ensure complete coverage. The bubbles created during mixing are typically broken by

brushing the coating's surface or by blowing on it using forced hot air. This high-gloss coating of 10 to 20 mils thickness will dry in about 7 hours at room temperature (~25oC) and will achieve its full hardness in 2 to 3 days. Color and gloss (i.e., lack of blush) are outstanding. Where a low HDT can be a problem (on tabletops, for example) a formulation containing less

Note that clear coatings of this type should not be used on objects exposed to direct sunlight. General-purpose epoxy resins will yellow over time under such conditions.

SURFACE PREPARATION:- Surface should be Dry, clean, even and free from dust, dirt, paint, rust, Algee, grease, soluble salt, or other contaminations . For cleaning use hand or power tools and cleaning chemicals / paint remover and then use rust remover or sand blasting wherever required

BOND	ESC-01
TYPE	EPOXY SURFACE COATING
Color	Crystal Clear Glossy
Drying time hr	6-mil film
Set-to-touch hr	4.5

SOLID % BY VOLUME	98 +- 2%
Surface-dry hr	5.5
MIXING	Two pack
Mixing Ratio	A:B = 1:1
Pot Life at R.T.	20-30 minutes after mixing
METHOD OF USE	By Spray, pouring, spatula, roller, etc
Through-dry	7.7 hr
Pencil hardness Cure: 24 hr, ~25°C 48 hr, ~25°C 7 days, ~25°C	B F F
Gardner impact, in-lb (J) to failure	
Cure: 24 hr, ~25°C, reverse/direct 48 hr, ~25°C, reverse/direct 7 days, ~25°C, reverse/direct	>160/>160 (>18/>18) >160/>160 (>18/>18) 6/18 (0.68/2.0)
Taber abrasion, wt. loss, mg, 1,000 cycles,	Drying time, hr, 6-mil film
1,000 g wt. (CS-17 wheel)	Set-to-touch 48 hr
Cure: 24 hr, ~25°C 48 hr, ~25°C 7 days, ~25°C	116 155 241
CHEMICAL RESISTANCE	Good
Chemical Floor Epoxy Acetic Acid (5%) HH Acetic Acid (10%) H Acetone H Acetyl Bromide H Aluminium Bromide HHH Aluminium Fluoride HHH Ammonium Bromide (5%) HH Baking Soda HHH Barium Hydroxide HHH Beer HHH Benzene H Boric Acid HHH n-Butanol HHH Butyl Acetate H Calcium Chloride HHH Calcium Hydroxide HHH Carbon Disulphide H Carbon Tetrachloride. H Carbonates HHH Carbonic Acid HHH Castor Oil HHH Chlorides HHH Chlorinated Paraffin HHH Chloroform H Chromic Acid H Citric Acid HHH	

Coconut Oil HHH
 Cotton Seed Oil HHH
 Diesel Oil HHH
 Dilute Detergents HHH
 Ethanol HHH
 Ethyl Alcohol H
 Ethylene Glycol HHH
 Fats HHH
 Ferric Chloride HHH
 Fish Oil HHH
 Fluorides (except HF) HHH
 Formic Acid H
 Gasoline HHH
 Ground Nut Oil HHH
 Chemical Floor Epoxy
 Heptane HHH
 Household Ammonia HH
 Hydrobromic Acid HH
 Hydrochloric Acid (dil) HH
 Kerosene HHH
 Lactic Acid (3%) HH
 Lime Juice H
 Linseed Oil HHH
 Lubricating Oils HHH
 Methanol HH
 Milk HHH
 Nitrates HHH
 Nitric Acid (10%) H
 Oleic Acid HHH
 Palm Kernel Oil HHH
 Palm Oil HHH
 Paraffin Wax HHH
 Petroleum Products HHH
 Phenol H
 Phosphoric Acid (10%) HH
 Pine Oil HHH
 Polypropylene Glycol HHH
 Potassium Hydroxide HHH
 Proprietary Sterilising Agents HHH
 Silicates HHH
 Sodium Carbonate HHH
 Sodium Chloride HHH
 Sodium Hydroxide HH
 Sodium Hypochlorite Soln.* HHH
 Soya Bean Oil HHH
 Sugars HHH
 Sulphates HHH
 Sulphuric Acid (45%) H
 Sunflower Seed Oil HHH
 Tannic Acid HHH
 Tetrahydronapthalene HHH
 1,1,1-Trichloroethane HHH
 Vegetable Oils HHH
 Water HHH
 White Spirit HHH
 * (15% available chlorine)

* Splash contact only

** Contact for max. 24 hours before washing off

Special Uses

For Dent & gap filling, tile grout, crack filling and joint sealing applications.

STORAGE LIFE

6 Months

PACKING LITERS

2, 10, 30, 50 Kg pack

The information contain here in is reliable and accurate the best of our knowledge. Technical services will provided for guidance when required. However conditions of uses and methods of application are beyond our control, no warranty is expressed or implied.

ALSO AVAILABLE CONSTRUCTION CHEMICALS LIKE CEMENT ADDITIVES, WATERPROOFING COATINGS, WATER REPELLENTS,

CHEMICALS & ABRASION RESISTANCE FLOORINGS MATERIALS, EPOXY-POLYURETHANE RESINS, GROUTING MATERIALS, ANTI CORROSIVE PAINTS, FACADE PAINTS, SEALANTS AND ADHESIVES, RETRO REINFORCING REHABILITATION MATERIALS. FOR BUILDING, BRIDGE, DAM, CANAL, TUNNEL AND MARINE STRUCTURES, ETC

TECHNICAL SERVICES & Technical assistance

Information is available by calling the Mr Bond Technical Service at:

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