



Material Safety Data Sheet

McBond-All Purpose Epoxy Weld
April 2015

PRODUCT DESCRIPTION

Technology: Epoxy Resin

Product Name: Mc-Rix McBond All Purpose Heavy Duty Epoxy Weld.

Additional Information 2-component solvent free epoxy resin

McBond is a high performance metal filled epoxy, When mixed together, It reacts quickly to produce tough & rigid bond lasting repairs to all types of metal & various other multiple surfaces, Permanently repairs or rebuild critical equipment and quickly return it to service, minimizing expensive downtime and reducing cost.

It forms a high strength permanent bond that can be filled, sanded, painted & drilled after curing.

**Hazards
identification**

Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

Hazard statement(s):

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.



Response:

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P362 Take off contaminated clothing.
 P391 Collect spillage.

Classification of material Xi - Irritant N - Dangerous for the environment

APPLICATION AREAS

MC BOND can be applied on all types of Metals, Plastics, PVC, Glass, Fiberglass, Wood, China clay, Ceramic, Concrete, Stone & Many more.

TECHNICAL DATA

Chemical ingredients	CAS-No.	Proportion
Reaction product: biphenyl-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	25068-38-6	10- < 30 %
Oxirane, 2,2'-((2,2-dimethyl-1,3-propanediyl)bis(oxymethylene)	17557-23-2	< 5 %
non hazardous ingredients~		60- <= 100 %



Resin

Base	Epoxy Resin
Color	Dark Grey
Odour	Characteristic
Density	Approx. 0.8 g/cm ³

Hardener

Base	Amine
Color	White / Light Yellow
Odour	Of Amines
Density	Approx. 0.6 g/cm ³

Mixture (Resin & Hardener)

Color	Grey
Odour	No smell after curing
Potlife	
At 25°C	10 min(s)
Density(Cured)	Approx.0.7 g/cm ³
Water Absorption 24hr(s) at 98% rh and 40°C	<0.5% Weight Gain
Compressive strength	15 to20MPa
Poisson ratio	0.22 to0.26
Volume change (depending on the curing conditions/	0 to20%



volume/ geometry)	
In service temperature	-40°C to 90°

PRELIMINARY STATEMENT

Before application it is suggested to read the Safety Data Sheet for information about precautionary measures and safety recommendations.

PRE-TREATMENT

The surfaces must be dry and free of oil, grease and dust.

APPLICATION

- It is recommended to use McBond in a well-ventilated area. To improve adhesion, roughen smooth surfaces. Then clean and dry all surfaces to be bonded.
- Mix resin and hardener in the ratio of 60:40, until the mixture is uniform.
 - After mixing is complete, Apply McBond within 2 minutes.

CURING

MCBOND cures within 15 – 20 Minutes by chemical reaction after mixing epoxy resin and hardener at room temperature. For fast curing it is recommended to use a heat source (infra-red or similar).



CLEANING

Cured adhesive can only be removed mechanically.

STORAGE

Recommended storage temperature: 5°C to 45°C

Shelf life: 24 months in original packaging

Ingestion:

DO NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person.
Get medical attention.



DISCLAIMER

Note: The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of various applications as well as differing application and working conditions in your environment that are beyond our control. Mc-Rix Industries is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, Mc-Rix Industries specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Mc-Rix Industries. Mc-Rix Industries specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits. The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Mc-Rix Industries patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. Trade mark usage except as otherwise noted, all trademarks in this document are trademarks of Mc-Rix Industries in the India and elsewhere.

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