



MATERIAL SAFETY DATA SHEET

MC TITE RAPID CLEAR EPOXY ADHESIVE

MC TITE RAPID is a two component fast setting epoxy adhesive that bonds virtually any tile or stone to any substrate. Being faster setting it is ideal for those jobs which have to be finished in 1-1.5 Hrs. at 30°C

This multipurpose two component system comprises of Epoxy resin and hardener which are to be mixed thoroughly in the recommended ratio to achieve optimum results. This system does not contain volatile matter, hence there is no shrinkage on curing.

MC TITE RAPID which is internally flexible, provides strong joints with excellent low creep properties hence, make it ideal for structural bonding applications.

AREAS OF APPLICATION

MC TITE RAPID is a multipurpose structural adhesive that can find applications in interior applications like fixing marble, granite, stone & skirting's, kitchen platforms, glass & mosaic tile, mirrors etc. It provides excellent adhesion to many substrates like cement – concrete, metal, ceramic, glass, marble, granite, artificial stone, leather, wood, most plastics etc.

FEATURES & BENEFITS

- High Cohesive Strength
- Good Heat/Solvent/Chemical resistance
- Negligible shrinkage on curing and hence good dimensional stability.
- Good shock resistance
- Long lasting bond

METHOD OF APPLICATION

Substrate Preparation:

- The strength and durability of bonded joint are dependent on proper pretreatment of substrates to be bonded.
- At the very least surfaces to be joined should be cleaned with a good degreasing agent such as Acetone or Trichloroethylene in order to remove all traces of oil, grease, rust, dust, etc from the surface.
- The best and most durable joints are obtained by either mechanical abrading (Sand Blasting) or by chemical etching (Pickling) the degreased surfaces.



- Mechanical abrading shall be followed by a second degreasing treatment.

Precautions & limitations:

- Even though it is advised to mix Resin & Hardener until uniform colour is attained, it is beneficial to mix for at least 2-3 minutes thoroughly. Correct R/H proportion & thorough mixing is the secret of consistent and optimum bond strength.
- Do not mix large quantity at a time.
- Never dilute R/H mix with solvents to lower the viscosity.
- Replace the respective caps of Resin & Hardener containers whenever they are not in use. Hardener tends to form skin if exposed to air for long time.
- Wipe off the excess oozed quantity from the bond area, when the adhesive is wet.
- Do not keep the R/H mix near heat source such as hotplate.
- Method by weighing is more accurate.
- If mixing by volume, never pour resin & hardener over one another. Pour equal quantity side by side. This way judgment of volume is good.
- Do not disturb the bond during setting i.e. after the clamping of assembly is over.
- Please note that certain polymeric surfaces such as Polythene, Polypropylene,



| Properties | Resin | Hardener |
|-----------------------------------------|-----------------------------------------------------------------------|-------------------------------|
| Visual Appearance | High Viscous Transparent Liquid | High Viscous Yellowish Liquid |
| Viscosity at 25 ⁰ C Poise | 300-500 | 250-400 |
| Density g/cm ³ | 1.15 Approx | 0.9 Approx |
| Flash Point ⁰ C | 200 ⁰ C Approx | 110 ⁰ C Approx |
| Odour | Faint Characteristic | Amine Odour |
| Coverage | Approx 0.5 meter ² /100g mix on flat mating surfaces | |
| Shelf Life | Minimum two years from month of Mfg. in the original sealed container | |

| Test Property | Standard | Unit | Value |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|-------|
| Overlap Shear Strength (MS-MS) Bond cured for 24 Hrs/RT | ASTM D-1002:1983 | Kg/cm ² | >160 |
| Cleavage Strength (MS-MS) Bind cured for 24 Hrs/Rt | ASTM D-1062:1983 | Kg/cm ² | >60 |
| Heat Resistance Adhesive Lap Shear Strength (MS-MS) Joint Kept immersed at 80 ⁰ C for 14 days | ASTM D-1151:1984 | Kg/cm ² | >150 |
| Water Resistance Adhesive Lap Shear Strength (MS-MS) Joint kept immersed in water at 30 ⁰ C for 14 days | | Kg/cm ² | >140 |



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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