

CAT. No. ADH-13-2010

# GRIPBOND

## Road Marker Adhesive

**GRIPBOND** is a 100% solids, solvent free. two components epoxy system specially formulated for bonding metallic, ceramic road markers and plastic reflectors stud over Portland cement and asphaltic concrete. It consists of a special blend of epoxy resins, high temperature resistant fillers, reinforcing fibers and a fast curing polyamine hardener. It has a thixotropic, soft consistency and suitably proportioned for easy 1:1 volume mixing at site. Final color of mixed component is gray.

### USES

**GRIPBOND** is used to bond road markers and reflectors stud over Portland cement and asphaltic concrete.

### ADVANTAGES

- Rapid curing.
- Excellent bond to concrete and asphalt.
- Easy 1:1 volume mixing at site.
- Excellent shear and tensile strength.
- Fiber- reinforced and resin- rich.

### TYPICAL PROPERTIES

- |  |   |
|--|---|
| • Bond strength to concrete and asphalt              | Excellent. Cohesive failure always occur in the substrate<br>Exceeds tensile strength of concrete and asphalt.<br>+16 N / sq.mm |
| • Bond to mild steel                                 |   |
| • Pot life   |   |
| 25 degree Celsius                                    | 20 minutes  |
| 35 degree Celsius                                    | 10 minutes  |
| 45 degree Celsius                                    | 5 minutes   |
| • 3-mm thick film drying time @ 35/25 degree Celsius | 2/3 hours   |
| • Full cure  | 16-24 hours   |
| • Mix ratio  |   |
| -By weight   | 50 : 50   |
| -By volume   | 1:1   |
| • Peak exotherm                                      | 86 degree Celsius   |
| • Chemical resistance                                | Excellent resistance to gasoline, diesel oil, water, mild acid and alkalies.  |

### DIRECTION FOR USE

### SURFACE PREPERATION

Substrate must be dry, clean and free from oil, loose dirt, sealers, coatings, curing compounds and other foreign matters. Asphaltic concrete should be allowed to weather at least two weeks after paving. If substrate is damp, blow-off the area to be fixed with marker using a portable hot air blower. Roughen the substrate slightly using steel brush.

### MARKING

Using a Chalk, mark the area to be fixed with studs. Place the stud into position and draw a line extending 10-mm from the periphery.

### MIXING

Scoop-up equal quantities of each component from the can marked part A resin and part B hardener. Mix with spatula until a uniform, streak-free grey color is obtained. Apply immediately within the indicated pot life.

### APPLICATION

Apply the mixed adhesive over the marked area, press the marker into place and align. Finally, apply foot pressure over the marker until a small bead of adhesive squeeze out around the periphery of the marker.

(Note: Sufficient quantity of adhesive should be applied such that the marker is sitting on at least 2 mm thick adhesive bed)

Allow adhesive to dry before opening to traffic.

When fixing lugged studs, place adhesive into the pre-drilled, cleaned hole. Place stud, align and apply foot pressure until an excess adhesive is squeezed- out around the stud.

### CLEANING

Use ISOKLEEN for cleaning tools and while adhesive is still wet.

### PACKING

**GRIPBOND** is packed in 10 and 35 liter kits parts A and B.

### COVERAGE

A 100mm diameter ceramic marker will require approximately 30-34 ml (0.03 – 0.034 liter) of Gripbond. Theoretically, a 35-liter kit will bond 1029-1167 pieces of ceramic markers.

### HEALTH/SAFETY

Epoxy resin and hardener may cause skin irritation to some sensitive persons. Users are advised to wear protective hand gloves, coveralls and eye protection. If accidentally spilled on the skin, wash immediately with soap and water. If spilled on the eyes, wash immediately with plenty of water and seek medical attention. Refer to MSDS for more information.

### SHELF LIFE

12 months minimum when stored in covered warehouse condition below 32 degree Celsius.

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Technical information, data are to be considered as typical values and not sales specification. Actual measured values may vary due to factors beyond our control. Indications concerning function and application of the products are empirical. Although the information is believed to be accurate, there is no warranty by ISOLA. None of the recommendations becomes part of the warranted quality of the products. Due to the fact that the conditions of individual use are beyond ISOLA's direct and continuous control, ISOLA disclaims all responsibility in connection with the use of its products and does not warrant against any loss direct or consequential

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