

Installation procedure for grouting of Weber Installation procedure for grouting of ERNI and ADB bases at Changi Airport using weber.tec grout FG TG





Preparation

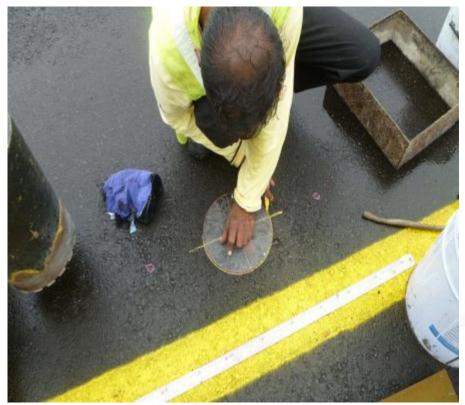
The success of any good installation is based on the correct preparation of the substrate into which the light base is grouted.

- The substrate must be sound and free of any cracking in the asphalt
- ➤ Substrate must be clean and dry
- ➤ Must be within the design set out by CAG
- The connecting wires must not be more than 150 mm below the surface level and embedded within the concrete plinth
- The installation should be carried out by skilled and experienced operatives.





Marking out



The diameter of the core hole is clearly set out

The lug is set out and adjacent core marking

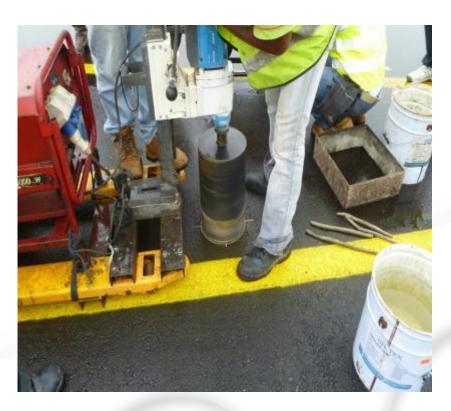




Coring



Initial coring to mark out the core diameter

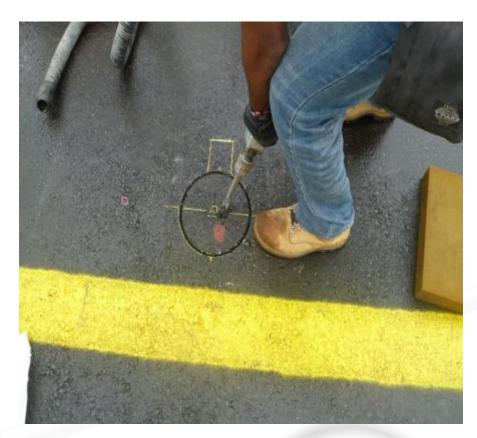


A metal case is placed in position and sealed to allow wet coring





Removal of asphalt core





Core depth should be 100mm to expose concrete plinth





Braking out of concrete





A jack hammer is used to break out the concrete and expose the cables

Cable is exposed and depth measurement is taken





Forming the Lug



Angle grinder is used to mark out area

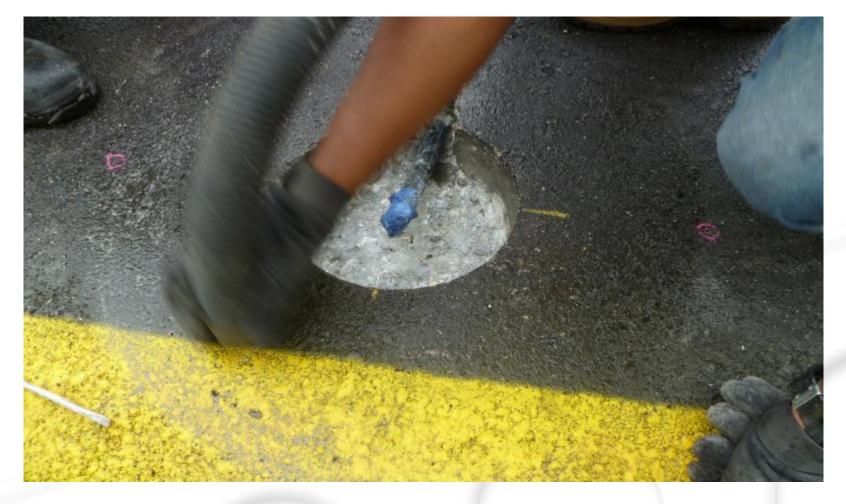


A jack hammer is used to break out the asphalt





Cleaning the area



A vacuum is used to remove all debris and ensure the surface is dry, the exposed area should be level to maintain depth of 150mm maximum





Exposing the cable rope



The tape protecting the cable end is cut

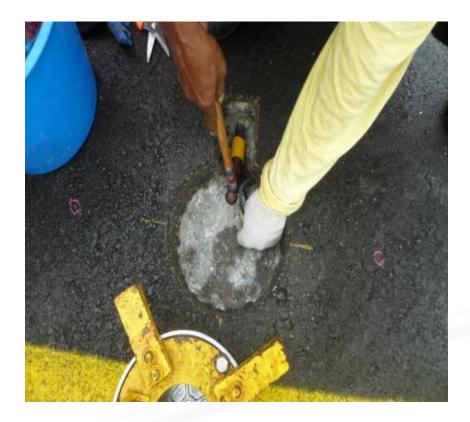


The cable rope is then pulled through





weber Fitting of connectors to base



A ridged connector is fitted to cable



The cable is then connected to the base and placed in position with the jacks note the gap under the base





weber weber.tec grout FG tropical grade



The product is supplied in a 22.5 kg pack (gross weight) and yields 12 L of mixed grout



Pack consists of three components

- Tin of resin
- Bag of filler
- Small bag of activator





Packing and Mixing



Mixing and health and safety instruction are clearly shown on one side of the pack



Components are placed on a ground sheets during mixing to protect the asphalt surface from spillage





Mixing



The Resin is poured into a clean mixing bucket



Activator is then added to the Resin and mixed with a slow speed drill for approximately 1 minute





Mixing



Filler component is then added to the mixed Resin and Activator

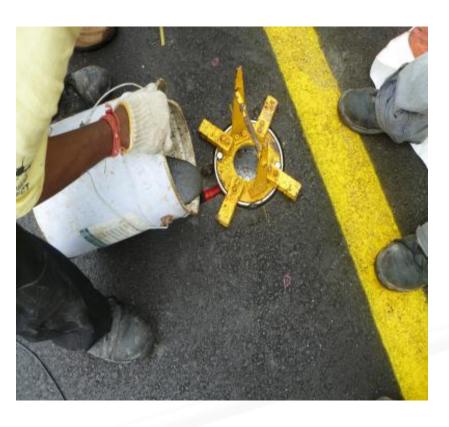


Filler component is then mixed to the Resin and Activator





Mixing and pouring



The mixed grout should be then poured via the lug opening





Pouring



Pour the grout into position filling all areas under and around the base up to approx.

50mm from the top surface



The grout should be checked during pouring to ensure it flows under and up the sides of the base





Pouring and Electrical fitting



The grout is then topped up to the level of the surrounding Asphalt and allowed to set



Once the grout has set the light section can be fitted and bolts tightened

