



## **EXPLECO GLSpphalt Mixing**

Expleco GLSpphalt emulsion is specially formulated to enable manufacture of a cold mix pot hole repair product. The product can be manufactured, laid and driven on immediately. The product is intended for use as a pothole and edge repair product. It is not intended to be used as total roading solution.

### **Equipment Needed**

1. Single or multiple Expleco GLS glass bottle crushing machines
2. A small 40-60litre concrete mixer.
3. Heavy duty metal scraper or small shovel.
4. Heavy duty coarse broom.
5. Heavy wooden post or similar compacting rammer.
6. Sealable 20 litre Plastic bags or 20 litre Plastic Buckets with Lids.

### **Mixing Process**

1. Properly clean concrete mixer to remove any dust or grease.
2. Take 20litre bucket of GLS glass sand directly from GLS machine and tip into rotating concrete mixer. Rotate for 2-3 minutes until surplus labels come to surface. Turn concrete mixer off and remove the surplus labels by hand. Some labels can remain in the mix because they act as a binder
3. Turn concrete mixer on and moisten the sand by adding clean water until sand is moist to touch but not pooling. ( Approx 0.5 – 1.0 litre per 20 litres of sand). Maybe less if sand is already moist.
4. Empty moist sand into 20 litre bucket and leave concrete mixer turning.

5. Pour 2 litres of GLSpfalt emulsion into concrete mixer and slowly add 10-15 litres of GLS sand while mixer is turning. The product will tend to bind at rear of mixer so the operator will need to partially tip the mixer to cause the mix to tumble and mix. Stop the mixer from time to time and scrape mix from rear of mixer and then tilt to tumble the mix.
6. The texture should be similar to a damp semi-dry porridge mix. Its should not have any pooling emulsion. If it is too soft add more sand and tumble to a damp mix. If it is too dry add GLS emulsion until you have a damp mix that does not slump when mounded.
7. **IMPORTANT** An optimum mix should only require 2-3 litres of GLS emulsion per 20 litres of GLS sand and this will depend on moisture content being perfected to a damp mix with no pooling.

### **Preparation and Application of GLSpfalt**

1. Thoroughly sweep pot hole clean and remove any trace of water.
2. Try and ensure pothole is at least 25mm deep and that edges are well defined and not feathered out.
3. Tip GLSpfalt into pothole and sweep to ensure a 50-60mm even mound is created to centre of pothole.
4. Compact the GLSpfalt using the coarse broom in a vertical compacting manner. If compacting has caused a hollow add more GLSpfalt mix and compact again using coarse broom.
5. For larger potholes it may be necessary to compact using the end of a heavy wooden post.
6. Once compacted it is possible to immediately drive a vehicle with car tread pattern to compact. If necessary add more GLSpfalt to ensure finished pothole has a slight mound towards centre.
7. In some locations where pothole is in a wet area it will be beneficial to pour a thin line of unmixed emulsion around the perimeter of the pothole to provide additional water resistance.
8. To minimise initial pick up and tracking from tires it is recommended that a fine sand or gravel mix typical of surrounding aggregate is swept over the top of the repaired surface in a 2-3mm thickness.

**Contact 0800 777567 or 0064 21324216 for Technical Assistance**