

Plastiroute RP – 2C Installation Method Statement

Plastiroute -RP is a high performance non-toxic high friction and coloured surfacing. It comprises of a two component activated thermosetting pigmented methyl methacrylate resin binder, incorporating natural or pigmented coloured aggregates. Plastiroute -RP is a chemically curing system and can also be used for protection against fuel, oil spillage and de-icing salts. It can be supplied in various colours.

Benefits

- quick to install
- excellent skid resistance
- durable
- manufactured to BS EN ISO quality and environmental procedures

Applications

Plastiroute -RP is ideal for the delineation of bus lanes and cycle lanes, for pedestrian crossings, junctions, bends, roundabouts and other hazard areas. For each type of application Geveko can recommend the right colour and application rate to use.

Application methods

Plastiroute -RP can be applied by spray machine or by hand. For application by spray machine please refer to the method statement for spray application.

Equipment Requirement

The equipment required for the hand application of Plastiroute -RP is generally composed of:

- 1 stirrer (low speed high torque drill fitted with helical stirrer)
- Squeegees (serrated edge "v-notch" or flatbed types)
- 1 truck
- 2-5 operatives
- Mobile generator or compressor
- Long haired paint rollers
- Mixing container or groundsheet to contain spills.
- Tape for masking off

and may include optional equipment such as a mechanical sweeper with suction system for cleaning surfaces prior to installation, or road drying / heating equipment.

Preparation

1. Prior to application of Plastiroute -RP, ensure that surfaces are clean, sound and dry.
2. All dust, dirt and loose material should be swept from the surface.
3. If the surface is dirty or contaminated by oil or grease, it should be water jet washed or cleaned using a 2% aqueous solution of detergent applied over the whole surface. The surface should then be scrubbed vigorously with a stiff brush to remove contaminants, thoroughly washed with clean water and allowed to dry or dried with a hot compressed air lance.
4. Any damage to the surface or irregularity must be repaired properly before applying Plastiroute -RP. New asphalt should be left for at least 8 weeks trafficking before applying Plastiroute -RP.
5. Ensure surface is completely dry and above 10°C.
6. If necessary the texture depth of the surface should be studied and measured to determine the consumption rate of the binder. Measurement should be carried out using the sand patch method.
7. Tape off all edges of the required marking area.

Mixing

1. Plastiroute - RP may separate or settle in the containers on storage. It is essential that it is stirred using the low speed high torque drill fitted with helical stirrer for 2 minutes and re-dispersed properly before mixing in activator.
2. If a uniquely coloured Plastiroute -RP is required 1 sachet of pigment could be added to white Plastiroute -RP and mixed for 2 minutes until it is a uniform colour.
3. Mix contents together using the low speed high torque drill fitted with helical stirrer.

Advised duration of mixing process - two minutes.

It is essential that Plastiroute -RP and activator at a ratio of 2% by weight are mixed thoroughly. Ensure material from the bottom, sides and corners is mixed properly. **Failure to mix the binder properly will result in poor strength and cure of the system.**

4. In cold weather, store the binder overnight in a warm store. This lowers the viscosity of Plastiroute - RP and makes it easier to use. In severe cold it may also be necessary to pre-warm Plastiroute -RP to 20°C to help with pouring and blending. Please consult the Geveko technical department for further advice on this.

Application

1. The temperature of Plastiroute -RP should be between +10°C and +35°C before mixing, with the ambient temperature range being between +10°C and +35°C.
2. The mixed Plastiroute -RP should be poured out as uniformly as possible, and as quickly as possible and distributed by squeegee. Care should be taken to obtain an even coating without puddles or thinly spread areas. Application rate will depend on texture depth and should be 3.84kg/m² for a 2mm film thickness. The tape used for masking off should be removed as soon as possible, avoiding a situation where Plastiroute -RP cures fully on the tape.
3. Rolling with long haired paint rollers is required directly after spreading with the squeegee to pick up the material and provide a uniform texture and finish.
4. After all of the areas have been covered and the tape removed, the material must be allowed to cure. The time it will take the material to cure will vary according to the surface temperature, but is typically 30 minutes at 20 °C
5. Make sure all tools and equipment is cleaned properly after use and site is left in a satisfactory condition.