

SPECIFICATION FOR SEALING BLOCK PAVED ROUNDABOUTS

1. The sealer to be used for sealing and stabilising the jointing sand and maintaining the reflective qualities of the black and white pavers shall be RESIBLOCK *F.R.I.* available from Resiblock Ltd (+44(0)1268 273344), or equal and approved.
2. The sealer shall be a moisture triggered aliphatic liquid SPPU (Specialist Pre-Polymer Urethane) in a hydrocarbon solvent, having the following minimum properties:
 - (i) High tolerance to UV radiation.
 - (ii) Surface curing time not to exceed 24 hours (touch dry - approximately 2 hours @15 °C.).
 - (iii) Does not adversely affect slip/skid values.
 - (iv) Be highly resistant to oils, diesel, petrol, and de-icing fluids.
 - (v) Must not adversely change the colour of the paving - over life cycle of product (min 10 years).
 - (vi) Elongation at break of film - not less than 350% (ASTM D2370).
 - (vii) Withstand temperatures in excess of 200 °C.
 - (viii) Prevent jointing sand erosion, by a direct jet of water at a pressure no less than 200 bar (1500 p.si.) (Lance 150 mm from surface).
 - (ix) The sealer must be capable of penetrating the joints to a minimum depth of 20 mm and shall form a flexible elastomeric water and fuel resistant bond
3. Material will need to withstand a minimum of 10,000,000 cumulative standard axles without distress or deformation to stabilised sand. This would need to be demonstrated either by proven track record for a period of no less than 5 years.
4. The material shall demonstrate that it is fully able to bond both the sand filled joints and the reflective beaded surface, whilst at the same time not subject to yellowing by U.V. light. This will need to be demonstrated either by proven safety and performance track record for at least 5 years on similar pavements.
5. Coverage rate for sealer will vary upon such factors as width of joints, porosity of pavers and ambient temperature but shall be of the order of 1.6 m² per litre.
6. Paving joints shall be completely filled with jointing sand to BS 6717 to the underside of the chamfers. After final compaction of the jointing sand the pavers shall be carefully swept to ensure that very little sand remains in the chamfers. Before application of the sealer the surface of pavers shall be dry, free from oil, laitence and loose sand particles.
7. The sealer shall be applied directly from the container and spread evenly on to the pavers using a purpose made application roller and allowed to fill the chamfers. The sealer should be worked into the joints, allowed to penetrate, and any excess material spread on to untreated areas. The sealer must not be diluted and once the container has been opened it should be applied without delay.