

ABSTRACT

The invention provides a process for producing a concrete construction having an improved surface appearance and water permeability, comprising the steps of:

(i) preparing a concrete composition of:

(a) 300 to 400 kg of cement per 1 m³ of the concrete composition,

(b) 0.008 to 0.04 parts by weight of binder per 1 part by weight of cement,

(c) 0.3 to 0.45 parts by weight of water per 1 part by weight of cement, of water, and

(d) 1,790 to 2,150 kg per 1m³ of the concrete composition of aggregate comprising sand and at least one of crushed stone and gravel, in the ratio by weight of 5:95 to 20:80, said crushed stone, if present, comprising from 70-100% by weight crushed stone with a grain size of 2.5 to 5 mm and from 0-3% by weight crushed stone with a grain size of 5 to 13 mm, and said gravel, if present, having a grain size of 5 to 10 mm;

(ii) hardening the concrete composition to form a concrete construction having water permeability; and

(iii) applying water having a pressure of 1,000 to 2,500 kgf/cm² to a surface of the concrete construction to remove hardened cement mortar covering aggregate at that surface.