

ABSTRACT**POLYMER CONCRETE PIPE WITH STEEL JACKET**

5 The present invention provides a polymer concrete pipe (101), comprising an external column and internal column forming a mould, wherein the mould has a cavity; a plurality of locking mechanism (102) on the external column for securing said external column; and a polymer concrete mixture comprising resin binder, aggregates, and auxiliary ingredients, characterised in that, the external
10 column of the mould is a steel jacket (103), wherein the polymer concrete mixture casted into the cavity of the mould, and cured to form an overlay of one part of the locking mechanism (102), wherein the steel jacket (103) confers additional strength for load bearing, and protection against external corrosion to the polymer concrete pipe (101).

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Figure 1