

- 1 -

BINDING MIXTURES

THIS INVENTION relates to binding mixtures.

According to this invention a binding mixture for binding particles comprises between 20% and 40% of a polybutadiene with at least a substantial proportion of the remainder of the mixture being a flow-enhancing solvent, the % being by weight of the mixture.

The flow enhancing solvent may for example be SBP 140-165 aliphatic hydrocarbon, such as Benzene low odour.

A suitable liquid polybutadiene is that sold under the name UNIVEST S by Huls Aktiengesellschaft of Marl, Germany.

The binding mixture is intended primarily for binding sand particles or ground glass particles or mixtures of sand and ground glass used for example as filler material between paving elements of stone, clay, concrete or terracotta for example and is intended to harden and fix the filler material. The binding material penetrates the filler material and makes the joint rigid and difficult of removal by aggressive street cleaners and the natural elements.

The paving elements may form a road or other surface and are not restricted to pavements.

The binding mixture may be available in a pre-mixed air-

- 2 -

tight container and may be applied to the joints in the paving by for example pouring, brushing, spraying or squeegeeing over and into the joint spaces, without leaving an unsightly deposit on the adjacent paving elements.

As the polybutadiene represents between 20% and 40% by weight of the mixture, the flow-enhancing solvent will usually form the remainder, save perhaps for the inclusion of a small quantity of another substance such as a colouring or deodorising additive.



- 3 -

CLAIMS

1. A binding mixture for binding particles comprising between 20% and 40% of a polybutadiene with at least a substantial proportion of the remainder of the mixture being a flow-enhancing solvent, the % being by weight of the mixture.
2. A binding mixture according to claim 1, wherein the polybutadiene is in liquid form.
3. A binding mixture according to Claim 1 or Claim 2, wherein the flow-enhancing solvent is SBP 140-165 aliphatic hydrocarbon.
4. A binding mixture according to any preceding claim, being pre-mixed and provided in an air tight container.
5. A binding mixture according to any preceding claim, including a colouring or deodorising addition.