## Abstract

Process for pressure injection with mortar
the annular space between tubbing and rock

The invention relates to a process during shield driving of a tunnel lined with tubbings for pressure injecting the annular space between tubbing and rock with a mortar mixture which is introduced into the interspace from a mortar container installed on the trailer by pumping via hosing and ~~reinforcing strips~~ pipes disposed in the shield casing. In order to attain rapid stiffening of the mortar, in order to lend it the capability of fulfilling the purpose of the pressure- and thrust-resistant embedding of the tubbing pipe, but yet, even after a relatively long standstill, to ensure the ability to start pumping with manageable pressures, according to the invention to the mortar mixture a thixotroping agent and sandy limestone powder is added in such quantities that a rapid initial shearing strength of up 5 to 10 KN/m$^2$ is attained after 30 minutes and, after an operational standstill, starting the pumping with a low pressure of up to approximately 8 bars is ensured.


This Sheet Has Been Replaced

