



GROUTING TUBES



All the tubes used are 16x20 mm. In special cases, where the insertion of all the tubes is difficult due to dimensions, 11.5x14 mm o 13x16 mm tubes are used for vent only. Tubes come in 5 colours to identify their applications; for their identification a base operating instruction and the relating specifications for special applications are given.



Colour	use	Description of use
Blue 16x20 mm	Primary grouting	Used for the external primary grouting (grouting of the external foundation).
Grey 16x20 mm	Foundation grouting	Used for the internal foundation grouting.
White 16x20 mm	Packer grouting	Used for packer grouting.
Red 16x20 mm	Free length grouting	Used for the free length grouting.
Green 16x20 mm	Bulb-foundation vent	Used for foundation vent, used as vent tube
Green 11.5x14 mm	Packer vent or general vent	Generally used as vent when dimensions must be reduced.
Green 13x16 mm		Generally used as vent when dimensions must be reduced.
Black 16.5x19.5 mm	Strand free length elementary protection	Used with no pressure needs to protect the greased single strands in the anchor free length.
Blue 13x20 mm	Primary grouting	High pressure external grouting

Colour and dimensions	Tolerances		Material	Weight (g/m)	Max. operating pressure*	Burst pressure*
Blue 16x20 mm	Int. diam 16 mm ±0.3 mm	Ex. diam 20 mm ±0.3 mm	L.D.P.E.	96	10 bar	15 bar
White 16x20 mm	Int. diam 16 mm ±0.3 mm	Ex. diam 20 mm ±0.3 mm	L.D.P.E.	96	10 bar	15 bar
Red 16x20 mm	Int. diam 16 mm ±0.3 mm	Ex. diam 20 mm ±0.3 mm	L.D.P.E.	96	10 bar	15 bar
Green 16x20 mm	Int. diam 16 mm ±0.3 mm	Ex. diam 20 mm ±0.3 mm	L.D.P.E.	96	10 bar	15 bar
Grey 16x20 mm	Int. diam 16 mm ±0.3 mm	Ex. diam 20 mm ±0.3 mm	L.D.P.E.	96	10 bar	15 bar
Green 11.5x14 mm	Int. diam 11,5 mm ±0.3 mm	Ex. diam 14 mm ±0.3 mm	L.D.P.E.	75	10 bar	15 bar
Green 13x16 mm	Int. diam 13 mm ±0.3 mm	Ex. diam 16 mm ±0.3 mm	L.D.P.E.	72	10 bar	15 bar
Black 16.5x19 mm	Int. diam 16.5 mm ±0.3 mm	Ex. diam 19.5 mm ±0.3 mm	L.D.P.E.	68	-	-
Blue 13x20 mm	Int. diam 13 mm ±0.5 mm	Ex. diam 20 mm ±0.5 mm	P.P.	160	40 bar	60 bar

*Maximum temperature at working pressure: 40 °C