

## Product range –Microcement

Microcement Product	Max particle size d <sub>95</sub>	Median particle size d <sub>50</sub>	Specific surface area (m <sup>2</sup> /kg)		Sulphate resistant cement	Normal mix design	
	µm	µm	BET	Blaine (approx.)		Water/Cement Ratio	Typical range
			See Note 1			See Note 2	
<b>Ultrafin 12 (UF12)</b>	12	3.0	2200	900	Yes	1.1 4.0	0.7 – 2.0 (rock) 3.0 – 6.0 (sand permeation)
<b>Ultrafin 16 (UF16)</b>	16	5.0	1600	760	Yes	1.0	0.8 – 1.5 (rock)
<b>Injektering 30 (INJ30)</b>	30	6.5	1300	650	Yes	0.75	0.5 – 1.0 (rock)
<b>Microfine 20 (MF20)</b>	20	6.5	2600	810	No	1.0	0.8 – 2.0 (rock)

### NOTES:

1. The specific surface area is determined using the BET method ( nitrogen absorption). The products have a very high specific surface area and it is difficult to determine by using the traditional Blaine method.
2. Grout mix design will vary according to specific ground conditions and targeted outcomes. Grout mixes are designed to be stable, i.e. < 2% water loss, over the full range of water/cement(binder) ratios. All grout mixes should contain a stabilising and penetration enhancing additive, i.e. GroutAid® and a superplasticising admixture for optimum particle dispersion, i.e. SP-40.
3. Stock levels of products vary depending on demand. Micro-cements are more prone to deterioration through moisture than coarser, general purpose cements. Good, dry storage conditions are a necessity for optimal product performance.

Distributors in Australia and Asia for MultiGrout® technology from Norway - high performance injection grouting materials for control of water inflows and ground strengthening in underground construction.

Waterproofing and rock support solutions for mining and tunnelling

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