

MICRO-CEMENTING

APPLICATION

- Surface casing vent flows
- Repair casing leaks
- Water shut-off
- Grouting
- 10°C - 90°C

BENEFITS

- Consistent performance
- Economical
- Excellent penetration into fine sands

FEATURES

- Extremely low fluid loss values
- Dispersant optimized for superior flow and penetration
- Excellent compressive strength development

PHYSICAL PROPERTIES

SLURRY DENSITY	1645 kg/m ³
WATER REQ	0.68 m ³ /t
YIELD	1.02 m ³ /t

SAFETY & HANDLING

WHMIS	Not controlled
TDG	Non-regulated
PACKAGING	Bag, super sack, bulk

DESCRIPTION

Micro-Cementing is effective for shutting off surface casing vent flows, repair casing leaks, water shut-off and cementitious grouting. The particle size distribution of this blend allows for penetration into tight flow paths where conventional cements cannot.

The ScottCo Micro-Cementing blend incorporates specialized fluid loss and dispersant polymers for excellent slurry stability, low fluid loss values and optimized rheological profile. The fluid loss and dispersants are built in to the base blend so all the adjustment that is needed is with the accelerator or retarder depending on formation temperature.

The micro-cementing concept is engineered with specific particle size distribution matched with low fluid loss and rheology numbers for optimal performance.

TECHNICAL DATA:

SLURRY STABILITY:

TEMP °C	Additives %		Free water %	Fluid Loss API	RHEOLOGY			
	CaCl ₂	MTR			300	100	6	3
20	1.0	-	0	38	78	36	6	5
30	-	-	0	36	71	30	4	3
40	-	0.2	0	30	71	29	4	2

THICKENING TIME AND COMPRESSIVE STRENGTH:

TEMP °C	Additives %		Thickening Time 70Bc	Compressive Strength (MPa)		
	CaCl ₂	MTR		8 Hr	12 Hr	24 Hr
20	1.0	-	2:34	1.52	3.52	8.27
30	-	-	2:23	1.72	3.59	9.65
40	-	0.2	3:40	3.45	6.90	11.72

Tested with MTR (ScottCo mid – temperature retarder) @ 40°C