

▶ Description

TamCrete 400CS is an environmentally friendly, highly stable, single component, ultra low viscosity colloidal silica primarily used for injection into sands, silts, and fine joints and fissures in rock strata.

By adjusting the accelerator dosage, TamCrete 400CS can be used where very slow migration and penetration capabilities are required. The chemical properties and hydrophilic nature of TamCrete 400CS, ensures excellent adhesion to wet / saturated surfaces.

▶ Key Benefits

- Single component, low viscosity.
- Good adhesion to wet surfaces
- Solvent-free and environment friendly
- Adjustable gel time
- Standard grouting equipment can be used
- Can clean with water

▶ Typical Applications

- Pre-injection of rock, sand and silt strata
- Consolidation of soil
- Tunnel waterproofing and leak sealing
- Passive ground stabilization

▶ Technical Data

TamCrete 400CS		
	TamCrete 400CS	TamCrete 400CS Accelerator
Form	Liquid	Liquid
Density	1.207	1.069
Viscosity	6cps	2cps
Silica Content	30	-
pH Value	9.86	6.21
All at 25°C		

All technical data stated herein is based on tests carried out under laboratory conditions.

▶ Application Guidelines

Pre-determine the required gel time of TamCrete 400CS.

Results based on ambient temperature of 21°C.

Accelerator Volume	10%	15%	20%
Gel time achieved	55min	25min	4 - 5min

Add the required dosage of accelerator to the TamCrete 400CS whilst agitating and ensure it is well mixed prior to commencement of injection.

Avoid over mixing (2 minutes is sufficient). Pump the TamCrete 400CS uniformly through an injection packer using any kind of grout pump, such as a mono type, diaphragm type or piston type pump.

Note: A series of Tam Grout Packers are available for selection. Contact your local TAM International representative for technical installation advice.

▶ Yield

1kg = 0.83 litres

▶ Storage

TamCrete 400CS should be stored at room temperature above 5°C, kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of 1 year can be expected.

▶ Health & Safety

TamCrete 400CS should only be used as directed. We always recommend that the Health & Safety data sheet is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Health & Safety data sheet is available upon request from your local TAM International representative.

# TamCrete 400CS

Colloidal Silica for Soil and Rock Injection



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