

# INDOSIT™ CS 2017

(Colloidal silica based - Solvent-free, low viscosity, hydrophilic grout for rock injection and consolidation of sandy and silty strata.)



INDOSIT™ CS 2017 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 . INDOSIT™ CS 2017 is available in two grades with varying SiO<sub>2</sub> content.

By adjusting the accelerator dosage , INDOSIT™ CS 2017 can be used where very slow migration and penetration capabilities are required .the chemical properties hydrophilic nature of INDOSIT™ CS 2017,ensures excellent adhesion to wet /saturated surface

## 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
- ✓Passive grout stabilisation
- ✓Tunnel water proofing and leak sealing

## TECHNICAL DATA

### INDOSIT™ CS 2017

|                              | INDOSIT™ CS 2017(30%) | INDOSIT™ CS 2017(27%) | INDOSIT™ CS 2017 A<br>(Accelerator) |
|------------------------------|-----------------------|-----------------------|-------------------------------------|
| Form                         | Liquid                | Liquid                | Liquid                              |
| Density (g/cm <sup>3</sup> ) | 1.18-1.20             | 1.15-1.17             | 1.0-1.5                             |
| Viscosity                    | 12-12.8               | 12.5-13               | 11-12                               |
| SiO <sub>2</sub>             | 30% ± 1               | 27% ± 1               | -                                   |
| pH Value                     | 9.4-9.7               | 9.5-10.1              | 7.5-8.0                             |
| All at 25°C                  |                       |                       |                                     |

**APPLICATION GUIDELINES**

Pre-determine the required gel time of INDOSIT™ CS 2017 with accelerator solution fixed at 12 % and ambient temperature of 24°C.

| Accelerator Volume by weight | 5%          | 10%       | 15%       | 20%     |
|------------------------------|-------------|-----------|-----------|---------|
| Gel Time                     | 120-150 Min | 60-80 Min | 20-30 Min | 2-6 Min |

NOTE: IF THERE IS A CHANGE IN TEMPERATURE, THEN THERE WILL BE A CHANGE IN GEL TIME ALSO.

Add the required dosage of accelerator to the INDOSIT™ CS 2017 whilst agitating and ensure it is well mixed prior to commencement of injection. Avoid over mixing (2 minutes is sufficient) pump the INDOSIT™ CS 2017 uniformly through an injection packer using any kind of pump such as a mono type ,diaphragm type or piston type pump.

Yield

1kg =0.83 litres

**PACKAGING**

INDOSIT™ CS 2017 and INDOSIT™ CS 2017 A (ACCELERATOR) are available in 250 kg barrels .

**STORAGE**

INDOSIT™ CS 2017 should be stored at room temperature above 5°C ,kept dry and out of direct sunlight. If these conditions are maintained and the product unopened, then a shelf life of one year can be expected.

**HEALTH & SAFETY**

INDOSIT™ CS 2017 should only be used as directed. We always recommend that the safety data sheet (SDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to your personal protection.

**Manufacturer**

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