

# FARCO CRET L1

## High Performance Liquid Shotcrete Accelerator

### Product Description

FARCOCRET-L1 is a high performance accelerator, especially formulated to give high early and ultimate compressive strengths in shotcrete applications.

FARCOCRET-L1 mainly used for wet mix shotcrete but also can be used for dry mix shotcrete.

#### ● Application

- Securing surfaces during tunneling
- Shotcrete for structural tunnel repairs
- Ground and slope stabilization
- Shotcrete for final tunnel lining

#### ● Advantages

Does not contain chlorides, nonnegative impact to steel fibers and reinforcement

- Quick setting characteristics
- Low rate of rebound loss by strong adhesion
- Improves early strength to achieve structural values rapidly
- Increased layer thickness possible

#### ● Standard compliance

FARCOCRET-L1 complies with:

- EN 934 -2 - Table 7
- ISIRI 2930 - Table 8

#### ● General properties

Transparent liquid	Appearance
13.5±1	PH
1.48±0.02	Specific gravity
500 Max	Chlorides (PPM)

#### ● Dosage

- L1 is normally dosed at rate of 2% - 8% by mass of cementitious materials.
- Dosages will vary depending on desired acceleration, ambient conditions, cement used and W/C ratio.
- Field testing is recommended to ensure proper performance.

#### ● Method of Use

- L1 is dosed and added on site by a liquid dispensing system for wet process.
- L1 is added at the spray nozzle and start to function in the second or so that the concrete takes to reach the substrate.
- For dry process, L1 must be introduced in to water ring or pre-blended with mix water.

#### ● Compatibility

- L1 can be used with other SHIMISAKHTEMAN admixtures such as:
- FARSIZAL AIR as an air entraining agent for improving the workability and reduction the segregation and bleeding.
- L1 can be mixed with steel FARCOFLBER to replace steel mesh or fibrin (pp fiber) to reduce shrinkage cracks.
- SHIMISAKHTEMAN plasticizers or super-plasticizers in order to reduce the water content.
- Do not mix with other accelerators.

#### ● Packaging

FARCOCRET-L1 is supplied in 25kg gallons and 250kg drums.



### ● **Storage**

Protect from direct sunlight, heat and frost. If L1 freezes, thaw at 20°C or above and re-constitute with mechanical agitation. Minimum storage temperature is 3°C and maximum is 50°C

### ● **Shelf life**

1 year in original, unopened package.

### ● **Safety and Handling Precautions**

Be cautious not to contact with skin, eyes, nose mouth, if splashed, flush immediately with plenty of clean water. Use suitable protective gloves and goggles.



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