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Advanced Construction Technologies

## LP 650

# Alkali-Free, Liquid Shotcrete Aid

### **Product Properties**

Causes fast setting

Little reduction of the final strength

Accelerates the work process by allowing a layer thickness of 15 to 20 cm per work step

Reduces dust formation

### **Areas of Application**

Shotcrete applied by dry or wet spraying

Stabilization in tunnel construction and mining

Temporary rockface stabilizations

Hillside stabilizations

### **Application Note**

Lp 650 is a liquid, alkali-free setting accelerator for shotcrete applied by dry or wet spraying

The dosage on the concrete and ambient temperatures, as well as on the desired curing behavior and the reactivity of the used cement.

To achieve an optimum result we recommend the use of fresh cement

Other criteria for the effectiveness are the type and composition of the aggregates and additives' as well as the water/cement ratio

Lp 650 is added at the nozzle piston pumps are not suitable for dosing. no filter must be used for the suction tube, to avoid blockage .A constant and accurate dosing must be ensured.



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After long term storage it is recommended to agitate Lp 650 with pressurized air to facilitate dosage .

Before Lp650 is used, the entire dosing equipment must be thoroughly cleaned with a lot of water. During concreting and work, breaks the system must remain closed to avoid blockage

Lp650 must not be stored in steel containers. The storage containers must be closed tightly.

All necessary suitability tests must be performed before use.

#### **Technical Data**

<b>Characteristic</b>	<b>unit</b>	<b>value</b>	<b>comments</b>
Density	Kg/dm	Approx.. 1.37	
Recommended Dosage	ml	40-70	Per kg of cement
Allowed dosage for shotcrete according to DIN18551	ml	70	Per kg of cement

#### **Product Characteristics for LP650**

<b>Type of admixture</b>	<b>Shotcrete accelerator</b>
Name of admixture	LP 650
Color	Yellow
consistency	liquid
storage	Can be stored for 6 months in tightly closed containers at temperatures between +5 to 30C
Form of delivery	1000 L containers

Property specifications are based on laboratory tests and may vary in practical application. To determine the individual technical suitability, preliminary suitability tests should be carried out under the application conditions.