



1.23 XPERT CRETE POWDER 105

Powder Shotcrete Accelerator Admixture

PRODUCT DESCRIPTION

XPERT CRETE 105-L is Alkali-free, high performance, liquid, set accelerator admixture.

USES

XPERT Crete 105-L is suitable for use as an accelerator in both the dry and wet spray process. The main uses are as follows:

- XPERT Crete with high initial strengths
- Heading stabilization in tunneling
- Rock and slope stabilization.
- Underground linings (i.e., in tunnels, mines)
- High quality lining XPERT Crete
- To form permanent gunite or XPERT Crete shells

CHARACTERISTICS / ADVANTAGES

The accelerator effect depends on the cement content, type and age, the XPERT Crete and substrate temperatures, layers thickness and the spray process. The water / cement ratio in wet spraying and the quantity of mixing water in dry spraying are important criteria for the accelerating effects of XPERT Crete.

XPERT Crete has the following characteristics and advantages as accelerator:

- High early strength development
- Alkali Free
- Minimal strength loss of the accelerated concrete
- No additional pollution of surface and ground water by leached out alkalis
- Lower rebound during application
- Improves bond of XPERT Crete to rock and concrete, thus facilitating overhead spraying
- Distinct reduction of dust
- Chloride free: does not attack steel reinforcement

STORAGE / SHELF LIFE

XPERT Crete must be stored in its original container as supplied.

6 months from date of production if stored in undamaged and unopened, original sealed containers, protected from direct sunlight and frost at temperatures between +5°C and +30°C.

Opened containers must be used as quickly as possible.

VALUE BASE

All technical data stated in this product data sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

The following test results were achieved from samples that were sprayed using industry standard equipment in a laboratory environment under controlled conditions. The water addition was set to obtain the consistency normally used in typical shotcrete applications.

TECHNICAL DATA

CATEGORY	PARAMETERS
Chemical Base	Special inorganic blend materials
Density	1.30 – 1.34 kg/l at 20°C
Equivalent Sodium Oxide as % Na ₂ O	Max %1
PH Value	~ 3.0