

UNIPLAST AC 101

ACCELERATING ADMIXTURE

UCA-LA-08-0722

DESCRIPTION

UNIPLAST AC 101 is a liquid hardening accelerator for concrete and mortar. It meets the requirements for hardening accelerators according to EN 934-2. UNIPLAST AC 101 promotes early strength development without negatively influencing final strengths.

USES

- ❖ UNIPLAST AC 101 is an effective accelerating admixture where high early strength concrete is desired and the use of calcium chloride is prohibited.
- ❖ UNIPLAST AC 101 can be used in Precast concrete to accelerate set times and increase early strength gain where job-site efficiency is important in order to meet construction deadlines.

ADVANTAGES

- Chloride free
- Accelerated setting time across a wide range of temperatures.
- Increased early and ultimate compressive strengths.
- Faster turnaround of formwork in precast applications.
- Fast construction processes and early load bearing capacity.
- Improved adhesion to reinforcing and stressing steel.
- UNIPLAST AC 101 does not contain chlorides or any other ingredients which promote the corrosion of steel. It is therefore suitable for use in reinforced concrete.

TYPICAL PROPERTIES

CALCIUM CHLORIDE CONTENT	≤ 0.01% as per EN 934-1:2008
SPECIFIC GRAVITY	1.01 ± 0.02 g/cc @ 25 °C.
CEMENT COMPATABILITY	Compatible with sulfate resisting and other Portland cements and high alumina cements
Compressive strength:	Acceleration in setting time will result in increase in early age compressive strength.
PACKAGING	UNIPLAST AC 101 is supplied in 200 litres drums, 1000 litres IBC and in bulk Tanker.

STANDARDS

UNIPLAST AC 101 is free from chlorides and complies with: **ASTM C 494 Types C & BS EN 934-2**

INSTRUCTIONS FOR USE

NOTE

UNIPLAST AC 101 must not be used in conjunction with any other admixture unless prior approval is received from Unichem Chemicals & Asphalt Technical Department.

DOSAGE

As a guide the dosage is normally between 0.5 - 2 litres per 100 kg of cement.

Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components.

We provide **technical support service** on mix design, admixture selection, evaluation of trials, dispensing equipment etc. Please contact the Technical department in these cases.

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The maximum effect is achieved when the UNIPLAST AC 101 is added after the addition of 50 % to 70 % of the water. UNIPLAST AC 101 must not be added to the dry materials.

Thorough mixing is essential and a minimum mixing cycle, after the addition of the UNIPLAST AC 101 of 120 seconds for forced action mixers is recommended.

OVERDOSING

An over dose of UNIPLAST AC 101 will lead to rapid setting of concrete. Ensure that in house lab trials are conducted to determine the optimum dosage prior to bulk batching

CURING

Fresh concrete must be cured properly and curing applied as early as possible.

CLEANING

Spillages of AC 101 can be removed with water.

STORAGE & SHELF LIFE

UNIPLAST AC 101 should be protected from extremes of temperature and direct sunlight.

UNIPLAST AC 101 has a minimum shelf life of 12 month from date of manufacturing, provided the temperature is kept within the range 5°C to 30°C.

SAFETY PRECAUTIONS

UNIPLAST AC 101 is nontoxic.

Any Splashes to the skin should be washed immediately with water. Splashes to the eyes should be washed immediately with water and medical advice should be sought.

Fire: UNIPLAST AC 101 is non-flammable.

LIMITATION OF LIABILITY

This information is based on our current level of knowledge. It is given in a good faith but it is not intended to guarantee any particular properties. The users must satisfy themselves that there are no circumstances requiring additional information or precautions or the verification of details given herein.

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