

BUILDING CHEMICALS SPECIALISTS

UNIPLASTA AM90

Air Entraining Mortar Admixture

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USES

- To produce in conjunction with **UNIPLAST RM11** retarding admixture a pre-mixed retarded mortar with a usable life of up to **48 hours**.
- To improve the workability and trowelling properties of fresh sand: cement mortars and to increase the frost resistance of the hardened mortar.

ADVANTAGES

- Air entrainment increases the resistance of mortars and concrete to attack by frost and de-icing salts.
- Produces a highly stable **air entrained system**.
- Improves troweling properties of mortars.
- Air entrainment increases mortar yield.
- Suitable for use in lime containing and lime –free mixes.
- Suitable for use in pigmented mortars
- In combination with **Uniplast RM11** retarding admixture, provides a mortar with extended working life up to **48 hours** and increase the consistency of the mortar.

STANDARD COMPLIANCE

UNIPLAST AM90 complies with **CYS EN934-3:2009+A1:2012**

Table 4 – General requirements and

Table 3 – Additional requirements for admixtures for long term retarded, ready to use mortar at equal consistence.

UNIPLAST AM90 is certified by **CERTIF** (Certification Organization) with the Certificate of the **Factory Production Control** with Certificate Number **1328 - CPR - 0063** and bears **CE marking**.

PROPERTIES

Appearance: **Liquid**
Colour: **Clear**
Specific Gravity: **1,003± 0,002** at 20°C
pH: **8,5 ± 1,0** at 20°C
Chloride Content: **Chloride Free**

PRODUCT DESCRIPTION

UNIPLAST AM90 is an air entraining admixture which is easily dispersed in water.

UNIPLAST AM90 entrains a controlled quantity of small air bubbles which impart cohesion and workability to a mortar and improve its durability when set. These bubbles are particularly stable, improving mortar quality and assisting in keeping mix workability at satisfactory levels.

Careful selection of dosage and use in combination with **Uniplast RM11** retarding agent allows extension of the working life of a pre-mixed mortar as suitable for the laying of bricks and blocks.

DOSAGE

Trials should be carried out with the proposed mix in order to determine the optimum dosage of **UNIPLAST AM90**. Typical dosage levels for **UNIPLAST AM90** to produce an air content of approximately 18% in a sand: cement mortar lie in the range of **0.20 to 0.60 litres / 100 kg of cement**.

Where lime is used in the mortar mix the dosage is likely to be increased, typically to **0.30 to 1.00 litres /100 kg of cement**.

Where lime is used in the mortar mix the admixture should be dosed on the total amount of lime and cement in the mix.

Dosages outside the typical ranges quoted below may be used if necessary and suitable to meet particular mix requirements, provided that adequate supervision is available.

DISPENSING

UNIPLAST AM90 should be measured using a suitable dispenser. The admixture should be added to the mortar with the mixing water to obtain the best results. If it is to be used in conjunction with **UNIPLAST RM11**, it must be added to the mix via a separate dispenser.

An overdose of double the intended amount of **UNIPLAST AM90** will result in a significant increase in the level of air entrainment obtained. This will tend to increase the workability and reduce strength. The degree of this effect will depend on the particular mix design and overdose level.

CURING

Good curing practice should be always maintained particularly at high temperatures and in situations where an overdose has occurred. Curing is particularly important where retarded screeds or renders are used.

**COMPARATIVE RESULTS between
control (only water) & Test with UNIPLAST RM11&AM90 at equal consistence**

	AIR CONTENT AFTER					
	Dosage RM11+AM90 (Litres)	Cement Content (Kg/m³)	Reduce Water %	standard mixing (%)	extended mixing (%)	Compress. Strength in 28 days (N/mm²)
Control (only water)	-	275	-	-	-	8,2
Test (with RM11+ AM90)	3,75 1,25	275	17%	16%	19%	9,4

PACKAGING - STORAGE

UNIPLAST AM90 is delivered in **210 Litres** metal drums, **1000 Litres** plastic containers.

UNIPLAST AM90 has a minimum shelf life of 12 months provided is stored between **2° C** and **40° C**. The material freezes at **-4° C**. It is necessary to protect material from direct sunlight and frost.

PRECAUTIONS

UNIPLAST AM90 is water based and is non-flammable.

UNIPLAST AM90 should not be swallowed. Contact with skin and eyes should be avoided. Always wear suitable protective gloves and eye/face protection. In the event that it comes in contact with the skin rinse thoroughly with plenty of water. In case of contact with eyes rinse immediately with water and seek medical attention immediately.

For more information on secure management and storage please request the **SAFETY DATA SHEET**.



Q.S.1.06.031



GR.02.12.01/1038



1328-CPR-0063