



Very  
High  
Durability  
Reinforced  
Concretes

*From Project to Jobsite*



Certified Quality System since **FEBRUARY 1993**

## ADGUNIT A23

### ACCELERATOR OF SETTING TIME FOR SPRAYED CONCRETES

**CE** approved – Certificate n. 1305 - CPD - 0017  
EN 934-2 T6  
EN 934-5 TZ 3.2.2

**Description** ADGUNIT A23 is an alluminate based formula, in concentrated high activity liquid version, chloride free specified for the application of "shotcreting" or "spritzbeton" both in dry or wet process.

**Advantages** Very fast setting and rapid hardening of cement, high thicknesses possible per sprayed layer, good adhesion of the spritzbeton to the support, effective with all cements (alumina cement excluded).

**Fields of use and method of use** Setting and hardening accelerator in "shotcreting" or "spritzbeton" in tunnels, rock consolidation, concrete repair and protection etc.

- In the dry process: to be added in the water of hydration.
- In the wet process: to be added in the wet mix cement/aggregates, as it is at the end of the nozzle. The product will be properly dosed and homogeneously distributed in the mix.

The dosage rate can vary depending on the cement type and reactivity and on the ambient temperature.

In the wet process we recommend the use of our Superplasticizer TECNOS<sup>®</sup> 95 also, in order to obtain water/cement ratios of 0,42÷0,49.

For the best performances and thixotropy of the wet processed spritzbeton, often it is specified the use of silica fume : we recommend the use of MICROBETON<sup>®</sup> POZ.

We recommend mix designs with cement content of not less of 450 kg/m<sup>3</sup> and rational granulometric distribution of the aggregates (according to "Fuller" or "Bolomey" curves).

**Remarks** It is always necessary to execute preliminary tests with the particular cement used and the particular ambiental conditions.  
Avoid the contact with eyes and skin.

**Packaging** Available in bulk  
Drum of 250 kg.  
IBC of 1500 kg.

**Storage** More than 6 months in the original unopened packaging at temperatures between +1 °C and +35°C. When opened use as soon as possible.

**Dosage** From 2,5% to 6,5% referred on the cement weight.

**Specifications** ADGUNIT A 23 meets the essential requirements according to EN 934-2 Normative, Classification T6 according to CE marking for Concrete Admixtures. Furthermore, its own performances meet and exceed the limits imposed by all the specifications concerning the concrete technology.



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<b>Technical Characteristics (Typical values)</b>	• Physical state :	liquid
	• Colour :	clear
	• Odour :	feeble
	• Specific weight :	~ 1,530 (20° C)

**Safety indications** In the case of contact with eyes wash with water thoroughly for 10 minutes or more and consult physician. Use gloves and glasses, protect skin. Avoid contacts with accelerating agents based on alkali silicates. Clean properly the machinery in the case there have been used silicates.  
Avoid contact with aluminium.  
Read carefully the safety indications on the packaging, or consult the relevant safety data sheet of this product.

The above information is based on our best experiences and lab results and on results of the application of the product in various fields. Tecnochem Italiana is not responsible for negative performances due to not proper use of the product or for defects due to elements not connected with the quality of the product included wrong storage. Technical characteristic in this technical data sheet are up-to-dated periodically. Revision date of this technical data sheet is indicated below.

Edition: 01/2006  
Date of revision: 09/2012

Nr. rev.: 2

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