

AD•SPL/A•G

high-range concrete superplasticizer

- Significantly improves concrete workability and pumpability
- Reduces cracking
- Improves the adhesion of the concrete to the reinforcement
- Non-flammable and non-toxic



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DESCRIPTION

Ready-to-use, new-generation high-performance concrete superplasticizer, compatible with all types of cement.

It is based on innovative synthetic polymer technology, covering a wide range of applications.

It provides high reduction of mixing water, increased concrete strength, enhanced plasticity and pumpability, and reduced shrinkage.

It is classified as a high-range water-reducing admixture/superplasticizer in accordance with European standard EN 934-2, Tables 3.1-3.2.

It complies with the following specifications: ASTM C 494-90 Types A & G, ASTM C 1017-90 Type 2, SK 308 Types A & G, ELOT EN 934-2 Tables 11.1, 11.2.

APPLICATIONS

AD•SPL/A•G is widely used in all types of concreting, both on construction sites and in concrete production plants.

It contributes to water reduction and produces improved concrete mixes that are less sensitive to variations in aggregates and cement types.

It acts as a plasticizer at low dosages and as a superplasticizer at higher dosages.

It is suitable for:

- Ready-mixed concrete (RMC).
- Concrete requiring high water reduction.
- High-performance concrete applications.
- Construction site applications requiring different concrete classes per application, with varying mix designs and raw materials.

PROPERTIES / ADVANTAGES

The use of AD•SPL/A•G in concrete provides the following advantages:

- Does not adversely affect other properties, while providing increased watertightness and higher concrete strength.
- It is chloride-free (< 0.1%) and is therefore suitable for reinforced and prestressed concrete.
- Compatible with all types of cement.
- Reduces mixing water demand.
- Significantly increases workability and pumpability of concrete.
- Significantly reduces cracking.

- Improves the bond between concrete and reinforcing steel.
- Reduces shrinkage during curing, as well as creep of hardened concrete.
- Non-flammable and non-toxic.

HARMONIZED STANDARDS / REGULATIONS

- EN 934.02: 2009+A1:2012 (Tables 3.1-3.2): High-range water-reducing admixture/superplasticizer.
- Complies with the following specifications: ASTM C 494-90 Types A & G, ASTM C 1017-90 Type 2, SK 308 Types A & G, ELOT EN 934-2 Tables 11.1, 11.2.

APPLICATION INSTRUCTIONS

- Suitability tests should be carried out prior to application.
- If AD•SPL/A•G freezes, it may be used after being slowly heated up to 30°C, while stirring continuously.
- AD•SPL/A•G can be added and mixed into the concrete either at the production plant or on site. If added on site (in the truck mixer drum), thorough mixing at high speed for approximately 4-5 minutes is required.
- The duration of its effectiveness depends on temperature, cement type, aggregate characteristics, as well as the mixing and transportation conditions.
- During concreting, standard regulations regarding concrete production and placement must be strictly observed.

CLEANING OF EQUIPMENT

All tools and application equipment are cleaned with water while the concrete containing AD•SPL/A•G is still fresh. Hardened material can only be mechanically removed.

RECOMMENDATIONS

- Temperature during application should be between +5°C and +35°C.
- Stir well before use.
- AD•SPL/A•G should be added to the mixing water or incorporated into the concrete mix at the end of the mixing process.
- Excessive dosage of AD•SPL/A•G may cause retardation of setting time and, in extreme cases, may affect the final strength of the concrete.

TECHNICAL CHARACTERISTICS

Appearance	liquid
Colour	dark brown
Type	polymer-based
Density	1.16 ±0.05 kg/lit
pH	8
Chloride content	< 0.1%
Alkali content	< 0.4%
Application temperature	minimum: +5°C / maximum: +35°C

Note: Measurements were conducted in a laboratory environment. The varying conditions present on-site (temperature, humidity, ventilation, substrate absorbency) may affect the material's properties.

CONSUMPTION

Depending on the cement type and under Greek climatic conditions, the following dosage rates apply:

- Approximately 0.5-0.6% b.w. of cement when used as a plasticizer (Type A).
- Approximately 0.6-1.2% b.w. of cement when used as a superplasticizer (Type G).

SAFETY PRECAUTIONS

- **AD•SPL/A•G** is not classified as a hazardous product under European Regulation (EC) No. 1907/2006 (REACH).
- It is recommended to always wear appropriate protective equipment for eyes and skin (protective clothing, gloves and goggles).
- If skin contact occurs, rinse well with plenty of clean water.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Refer to the product's Safety Data Sheet for further information on safe handling and precautions.
- **PRODUCT FOR PROFESSIONAL USE ONLY.**

PACKAGING - STORAGE

Available in:

- 20kg plastic containers.

Storage: 24 months from production date, if stored in original, sealed container, protected from direct sunlight and frost.

LEGAL NOTICE

The technical characteristics and recommendations for the use and application of the **FINOMIX** range of products are based on the knowledge and experience of the company. The above information shall be considered merely indicative and subject to confirmation after long-term practical application. For this reason, anyone who intends to use the product must ensure that it is suitable for the envisaged application. Since the specific site conditions during the applications are beyond the control of our company, the user alone is fully responsible for any consequences deriving from the use of the product. **FINOBETON S.A. (FINOMIX)** has the right to modify the properties of its products without prior notice. This release voids any previous publications issued for this technical specifications sheet.

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