



Scientific and Production Enterprise

19A Pozharskogo Street
Vladikavkaz, 362002
Russia

Phone: +7 938 883 10 37
e-mail: dobavkad5@mail.ru
Website: www.tokard5.ru

Multifunctional Admixture D-5 for concretes, mortars, dry building mixtures and cements

PRODUCT DESCRIPTION

D-5 is a highly effective admixture that significantly improves major properties of hardened and fresh concrete: early strength, ultimate strength, concrete workability, workability retention and water-proofing.

ADVANTAGES

- **HIGH STRENGTH:** Using D-5 increases the 28-day strength of concrete by 30-50% as compared to concrete with no admixtures (in mixtures with the same slump); alternatively cement consumption can be reduced by 15-20%
- **ACCELERATES STRENGTH GAIN:** Target 28-day strength is achieved by day 7.
- **WORKABILITY** of concrete mix is improved: increases slump from 100mm to 220mm, while increasing strength at the same time
- **RETAINS WORKABILITY** of fresh concrete mix for at least 2-3 hours
- **SUBSTANTIALLY** improves water-proofing
- **IMPROVES** sulfate-resistance of concrete
- **PROVIDES** concrete with self-healing properties for through cracks up to 0,5mm wide ensures water-resistance of cold joints
- **IMPROVES** resistance to segregation of fresh concrete
- **IMPROVES** bond between concrete and reinforcements and adhesion by 1.5-1.7 times
- **ECO-FRIENDLY:** Admixture D-5 does not form toxic compounds in atmosphere or water; it does not contain substances harmful to cement stone or steel re-enforcement. It can be used in concrete and reinforced concrete structures that are in contact with drinking water.

PRODUCT DATA

Form:	Powder
Colour:	Light-beige to light brown
Specific gravity:	2.9 t/m ³
Chloride content:	0.05% - 0.07%
Air-entrainment:	Increases by 1%-2%
Water reduction:	15%-25% depending on dosage rate of D-5
Dosage:	2%-3% of total cement content (efficiency increases with dosage). Trial mixes are recommended to establish exact dosage rate required to establish water reduction. If assistance is required, please, contact TOKAR representative in New Zealand.
Suitability:	All types of Portland cements.
Minimum cement content:	There are no specific requirements for minimum cement content however the best results are achieved with cement content of 250kg/m ³ and over.
Compatibility with other admixtures:	D-5 is compatible with many normal types of admixtures, like AEA, SRA, etc. however laboratory trials are strongly recommended to establish compatibility.
Packaging:	TBA
Storage and shelf life:	24 months in dry conditions in original factory packaging.