

APPLICATIONS

BetonGuard is used for the production of concrete structures that are in permanent or semi contact with water, such as :

- ✓ Basins, tanks, wells even for drinking water
- ✓ Purifiers and water treatment plants
- ✓ Foundations, slabs and underground walls
- ✓ Docks and marine work
- ✓ Underground parking structures
- ✓ Swimming pools

MIXING DETAILS

Mixing in ready mix plant

Add mixing BetonGuard in ready mix plants can be achieved recalling the product from the silos to the pre mixer, or manually adding BetonGuard on the aggregate transport tape. Prolonged mixing time is necessary to avoid lumps in the paste.

Mixing on the job site

If necessary, BetonGuard can be easily added in the mixing truck on the job site. In this case we recommend a high velocity and prolonged mixing of at least 1 minute per 10 kg bag of BetonGuard used, this will avoid lumps in the concrete paste

COMPATIBILITY WITH DIFFERENT CEMENT TYPES

BETONGUARD reacts with the free lime (CaOH) in the matrix of the concrete, it is recommended to verify the cement type used in the mix design, this should be a PORTLAND: CEM I or CEM II.

PACKAGING AND CONSERVATION

BETONGUARD is packaged in :

- 10 kg bag
- 500 kg big bag
- Bulk

With original packaging and when properly conserved in a dry protected environment, this product has a 1 year expiry.



PRODUCT CHARACTERISTICS

ASPECT AND COLOUR	Grey powder
PRINCIPAL ACTIVITY	Waterproofing in the mass of concrete
SECONDARY ACTIVITY	Reducer of W/C ratio and micro filler
INCREASE IN WORKABILITY EN 12350-2	from 30 to 240 mm
MAINTAINING WORKABILITY AFTER 60' – EN 480-8	210 mm
CONTENT OF CHLORIDE ION (< 0 = 0,05%) – EN 480 -10	0,031%
PACKAGING	10 kg bag
	500 kg big bag
	bulk
CUSTOM CODE	3824/40/00
EXPIRY	12 months

SPECIFICATIONS UNI EN 934-2 (T3.1/3.2/9)

PASTE COLOUR	Grey
DOSAGE	3-4 kg per 100 kg cement
PASTE pH LEVEL	> 12
MINIMUM CEMENT DOSAGE	300 kg/m ³
MINIMUM CEMENT DOSAGE FOR STUCTURES IN CONTACT WITH WATER	330 kg/m ³
RECOMMENDED W/C RATIO	0,40 - 0,45
RECOMMENDED TEMPERATURES OF CONCRETE TREATED WITH BETONGUARD	+5 ÷ +35°C
AVERAGE WATER PENETRATION EN 12390 AT 28 DAYS	2,5 mm
AVERAGE COMPRESSIVE STRENGTH AT 28 DAYS EN 12390 -3, 3.1	50 MPa