

Chopped Basalt Fibers AC-12-300

Chopped basalt fiber AC (Anti-crack) is a special purpose basalt fiber chopped strand designed for mixing with concrete, mortar and other cement based mixes where the uniform dispersion of the fibers is needed. Chopped basalt fiber AC is typically used in ready mix concrete, floor screeds, or other special mortar mixes to prevent cracking and improve the performance of cementitious applications.

Chopped basalt fiber AC has a special sizing system which is allowing full distribution of single filaments in concrete mixes. They incorporate easily into mixes giving a very large number of distributed reinforcing fibers from a small weight.

Chopped basalt fiber AC does not protrude from the surface and require no further finishing.

Useful information

- ✓ It can be easily introduced in to the conventional concrete mixes as on the working site either in the ready mixers without the need of special equipment.
- ✓ Use of basalt chopped fiber entirely avoids the need of application of light steel mesh and framing in floor screeds and slabs on ground.

- ✓ Basalt chopped fiber can be used as in floor slabs ether in the production of flooring slabs (10mm ÷ 8mm).
- ✓ In flooring concrete and thick concrete applications (80mm) is recommended to use chopped basalt fiber in amount of 0,6 ÷ 1,0 kg/m³, but in thin concrete slabs (10mm) can be used in amount of up to 0,1% in cm³ of concrete.
- ✓ Use of 2kg ÷ 4kg chopped basalt fiber in conventional steel concrete components avoids application from cracking, also use of 18kg/m³ of chopped basalt fiber in those applications as concrete beams either in inserted steel components ensures avoiding of use of steel elements in construction.
- ✓ Whilst introducing the chopped basalt fiber with the low concentrations (0,6 ÷ 2,0 kg/m³) in concrete, it is recommended to use chopped rovings with 300 ÷ 900 tex, and in case of using high concentration of chopped basalt fibers it should be used chopped rovings with 150 ÷ 300 tex.

Technical parameters

type	Chopped basalt fiber	
	AC-12-300	Standard/Method
Strand tex	300	ISO 1889:1987
Filament Dia. (microns)	14	
Length (mm)	12	
Moisture Content (%)	0,3	ISO 3344 : 1977
Organic (%)	3,5±1	ISO 1887 : 1980

Physical parameters

Shape	Chopped Fiber
Physiologic characteristics	with pleasant sensation
Stability toward vibration	vibration resistant

Other typical characteristics of production

Data about ecology	ecologically harmless
Preventive measure	do not need any technical and individual measures
Packing	in polyethylene bags
Storage	Should be stored dry in their original packaging, temperature conditions between 15÷35°C, humidity between 35÷65%.

Chemical parameters

Color	grey, greenish
Smell	odorless
Material content	SiO ₂ 48÷52; Al ₂ O ₃ 14÷18; Fe ₂ O ₃ 7÷11; CaO 8÷11 MgO 3,5÷8,5; Na ₂ O_K ₂ O 2,5÷6,0; TiO ₂ 0,2÷2; MnO ≥ 0,2; SO ₃ > 0,2