



STIGOEX Additive for acceleration of cement binding

Areas of application	STIGOEX is used as an additive to accelerate binding and hardening of cement when it is necessary to speed up the execution of works. Suitable for preparing mortar to stop the penetration of water in the rocks of underground buildings, concrete or brick walls, in various canals, manholes and the like. It is used for the preparation of concrete for spraying, as well as for works at low temperatures.				
Product description	Colorless liquid, mixture of alkali silicates with additives, without chloride.				
Properties	STIGOEX accelerates the binding of cement, which reduces the transition time to solids with cement mixtures. It does not corrode the armature.				
Substrate preparation	Remove loose parts and aggregate grains from segregated concrete. Clean the surface from grease, dust and moisten well.				
Preparation STIGOEX	STIGOEX is added to water for the preparation of cement mortar or concrete. The amount depends on the desired binding speed. The table gives the approximate values of the cement binding speed depending on the amount of STIGOEX at a temperature of about 20°C:				
	STIGOEX expressed as mass % of cement	W/C factor	Mixing ratio (by weight) STIGOEX : water	The beginning of bonding	The end of bonding
	42 %	0,42	1 : 0	10 s	30 s
	25 %	0,42	1 : 1	2,5 min.	15 min
	15 %	0,38	1 : 2	13 min.	60 min.
	10 %	0,36	1 : 3	37 min.	220 min.
	0 %	0,32	0 : 1	180 min.	270 min.
	Adding aggregate and / or water to the cement mixture prolongs the bonding time. To determine the binding time, it is necessary to make a test mixture. Mixture should be prepared as much as possible before binding.				
Application	Adjust the application method to the amount of prepared mixture and the bonding speed. Smaller quantities with a higher bonding speed can be applied by hand (mandatory use of rubber gloves) or with a spatula. Use mechanical aids when performing bigger work. Lowest application temperature + 5°C.				
Consumption	Consumption depends on the method of application. Amounts 5 or more mass percentages of cement in the mixture.				
Cleaning the tools	Wash the tool with water immediately after use. After bonding, hardened material can only be removed mechanically.				
Technical data	Density	≈ 1,3 g/cm ³			
	pH	≈ 12			
	For a mixture of concrete with 5% by weight STIGOEX per amount of cement				
	Bonding start time HRN EN 480-2	20°C = 250 min, 5°C = 385 min			
	Compressive strength HRN EN 12390-3	After 28 days = 45,0 N/mm ² , After 90 days = 46,0 N/mm ²			
	Air content in fresh concrete, HRN EN 12350-7	0,1 volumes % more than a mixture without the additive of accelerators			
Packaging	Plastic canister of 3 l, 5 l and 10 l.				
Storage	Store at temperatures from +5°C to +30°C, in tightly closed packaging. Protect from direct solar radiation. Protect from freezing!				
Durability	1 year in original factory packaging.				
Security measures	Product is irritating! For detailed information see Safety technical sheet.				

We do not answer for any damages which would result from the wrong choice of material or its incorrect application. For all additional information, please contact us at MDK Građevinar d.o.o., STIG office - production facility, Samoborska 328, tel. 01/3456873, fax. 01/3488326, www.stig.hr, e-mail: stig@stig.hr
Thank you for putting your trust in us!