

# Satex VZ

**Concrete admixture for controlled set retardation and Plaster admixture for workability (ASTM C 494 TYPE B, TS-EN 934-2)**

## Properties

Satex VZ slows down the reaction of cement with water. Therefore, concrete can be workable for a longer period. It is possible to obtain the required workability time by the controlled admixture dosage.

It slows down heat generation in concrete and therefore, the risk of cracking due to heating is prevented.

It increases the final compressive strength of concrete because of its retarding effect.

Satex VZ is safe between the indicated limits. Retarded concrete causes water bleeding in the long term and the cracking sensitivity due to shrinkage increases. In the meanwhile concrete should be kept humid in order to prevent water evaporation.

## Area of applications

The problems regarding concrete pouring and working breaks can be overcome and cold joints can be prevented. Concrete can still be workable after a long time and can be finished afterwards.

Satex VZ is especially appropriate for the production of large dimensioned monolithic structures, transported concrete and concrete pouring at hot weather conditions. During the placing of retarded concrete, the necessary equipment (vibration table, finishing helicopter) to be used for finishing of the concrete surfaces should be ready at the construction site in order to cover the possible shrinkage cracks immediately after their occurrence.

## Product Data

Colour	Light yellow
Density	1.19 ± 0.03 g/cm <sup>3</sup>
Form	Liquid
Solubility	In water
Chemical base	Pure phosphate based
Working temperature	above 1°C

## Working instructions

Satex VZ should either be added to the concrete mixture with the mixing water or added to the fresh concrete. It is not advisable to add directly to the dry concrete mixture. In case of the use of different concrete admixtures together, it is necessary to check their compatibility. If it is stored for a long time, the colour of Satex VZ can fade or it can turn to brown if contacts to the steel. Both situations do not affect the performance of product. Satex VZ should be shaken / stirred before using.

## Delivery and storage

### Packaging:

Satex VZ is delivered in;

Bulk 15-26 tons / bulk

IBC 1200 kg

Drum 250 kg

Pail 30 kg

### Storage:

One year from the date of production if stored properly in unopened packaging in dry conditions at temperatures between +5°C and +35°C. It should be shaken / stirred before using.

## Notes

This data sheet is based on comprehensive experiences, intends to inform to the best knowledge, is not legally binding and does not constitute a contractual legal relationship or a side obligation from the purchase agreement. We guarantee for the quality of our product under our terms and conditions of sale and purchase. In order to reduce the risk of error, limiting information is also stated. We reserve the right to make changes representing technical progress. This data sheet supersedes all earlier technical data on this product.

## Consumption

2,0 to 20 ml per kg of cement. In other words, 0,25-2,5% of cement weight.

Other information is shown on the "Guide Values Table".

Satex VZ consumption dosage information table

(for determining workability time of concretes produced with CEM I type of cement)

Concrete temperature °C	Concrete workability time (hrs)							
	3	5	7	9	12	15	18	21
+10	-	-	0,2	0,3	0,5	0,7	0,9	1,0
+15	-	0,1	0,3	0,4	0,6	0,8	1,1	1,5
+20	0,1	0,2	0,4	0,5	0,8	1,1	1,4	1,8
+25	0,2	0,3	0,5	0,7	1,0	1,5	2,0	-
+30	0,3	0,4	0,6	0,8	1,2	2,0	-	-