

KLJ[®]-IV

Permeable Crystalline Waterproofing



Brief Introduction

KLJ[®]-IV is a concrete admixture possessing a fantastic Capillary Crystalline Waterproofing function. The admixture is blended into the concrete mixture during the batching process in order to waterproof and protect concrete right from the beginning. It can perforate the cement paste and concrete capillary pores, forming crystalline or gelatinous substances which fill the capillary pores and in doing so reduce concrete permeability. Capillary Crystalline Waterproofing Agent is widely utilized in tunnel and subway systems, hydropower stations, reservoirs, underground vaults and pre-cast components.

Product Features

- Suitable initial and final setting time, with excellent workability.
- Possessing great Capillary Crystalline Waterproofing functions and strong self-healing capabilities. The agent can seal static hairline cracks of up to 0.4 mm.
- Highly resistance to aggressive chemicals.
- Added into the concrete during the batching process and so it is not subject to climatic restraints.
- Less costly than the majority of other methods.
- Non-toxic.

Technical Data

Following data are the typical characteristics of KLJ[®]-IV, which can be adjusted slightly depending on customer' s needs.

Item		Specification	Test Result
Water reduction, %, <		8	<6
Setting time difference	Initial setting, min, >	-90	>-60
Compressive strength ratio, %	7d, ≥	100	108
	28d, ≥	100	113
Shrinkage ratio, %, 28d, ≤		125	116
Impermeability	With waterproofing agent, MPa, 28d	measured value	1.3
	Impermeability pressure ratio, %, 28d, ≥	200	325
	Second impermeability pressure, MPa, 56d, ≥	measured value	<6

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Method of Use and Matters Needing Attention

- **Dosage:** The standard range of the KLJ[®]-IV addition rate is 2%~4% by weight of cement (do not exceed recommended dosage rate).
- **Mixing:** Mixing time should be lengthened by 30s for good dispersion.
- **Curing:** Moisture conservation about 10h after pouring of the concrete.
- **Note:** Under certain conditions, the dosage rate may be as low as 1.5% depending on the quantity and type of total cementitious materials. The maximum use level is 4% by weight of cement.

Packaging and Storage

- **Packaging:** KLJ[®]-IV agent is packaged in 40kg/bag. For specific projects, other types of packaging are available as requested.
- **Storage:** The packages should be stored in a cool and dry environment. Protection from water should be ensured during transportation. The maximum product life is within eight months if maintained in the proper conditions.

Security Matters

KLJ[®]-IV contains no hazardous substances that require labeling. However, using standard handling procedures with the product is recommended.

Technology and Service Characteristics

To guarantee the desired concrete performance, we provide a technical consulting service dealing with the design of concrete mix proportion and experiments on the optimization of mix proportion. Our technical staff offers an on-site directing service for free.

NOTE : Field service, where provided, does not constitute supervisory responsibility. Suggestions made by SOBUTE whether verbal or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, but not SOBUTE, are responsible for carrying out procedures appropriate to the specific application.



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