

VRSKA U

Polymer admixture for improving adhesion, elasticity and water resistance of mortar mixtures

FIELD OF APPLICATION

Improvement of physical properties of cement mixtures. It is used for execution of flooring and screeds, repair works of concrete and mortars, application of thin cement layers and coatings, improvement of adhesiveness of mortars for bonding ceramic tiles etc.

For stabilization and surface impregnation of cement floors.

For preparation of pre-coating (primer) for improving the bond between old and new concrete (mortar).

PROPERTIES

- Improves adhesiveness and simplifies the application of cement mortars
- Improves the workability of fresh cement mixtures
- Increases the resistance to atmosphere impacts, especially to frost
- Does not contain chlorides

TECHNICAL FEATURES

PROPERTY	METHOD	DECLARED VALUE
Appearance	/	White liquid
Density	ISO 758	1,03 ± 0,03 g/cm ³
pH value	ISO 4316	7,0 - 9,0

COATING APPLICATION

SUBSTRATE PREPARATION

For reparation or stabilization of concrete surfaces, the concrete substrate must be clean, free of dust and grease. It is necessary to remove remains of paint, mortar, grease, plants etc. If the material is applied over a smooth and sound substrate, it is recommended to slightly scratch the surface with a steel brush. Prepared substrate should be damped with water until saturation. If steel reinforcement is exposed on the surface, it needs to be cleaned (with a steel brush or with sand blasting) and needs to be protected with Reparatur Penetrat or with Antikoroazin – E.

FOR STABILIZATION / IMPREGNATION OF CEMENT SUBSTRATE

The material is prepared by mixing Vrska U : Water = 1 : 2. The prepared mixture is applied into the substrate with a brush in one layer. If the substrate is very porous, it is necessary to apply a second layer. The treated substrate should have a darker shade.

PRE-COATING FOR MORTAR OF CONCRETE

The substrate is treated with a prepared mixture of 1 : 3 or 1 : 4 (Vrska U : Water). The prepared pre-coat mixture is applied on the substrate with a brush. The new mortar or concrete needs to be applied on a fresh primer, approximately 20 to 30 minutes after application of the primer. If the primer is dried (absorbed), it needs to be removed mechanically and the substrate needs to be treated again.

ADMIXTURE FOR MORTAR AND CONCRETE APPLICATION

The optimal dosage for Vrska U is 3 % - 7 % from the cement mass. Vrska U is added into the water for preparation of the mortar and mixed until homogenization. The prepared liquid mixture is added to the powder mixture part. In the first few hours after the application of the prepared mortar mixture, it is necessary to obtain protection and curing measures for fresh concrete, such as prevention of direct exposure to sun and wind, prevention of exposure to high temperatures and spraying with water.

EFFECT FROM OVERDOSING

In case of overdosing the admixture, there is a possibility for considerable prolongation of the initial and final setting time of the concrete or mortar. The effect is more distinct when using sulphate resistant cements or Portland cement with additions.

COMPATABILITY

Vrska U is compatible with a number of admixtures of ADING's production program. If two or more admixtures are used in concrete mixture, it is necessary to perform preliminary testing. Different admixtures are batched separately i.e. are not intermixed with each other prior to insertion into the concrete mixture. Vrska U is compatible with all types of Portland cements, sulphate resistant cements, cements with additives fly ash.

PACKAGING

Plastic cans: 1, 5, 20 kg
Containers: 1000 kg

STORAGE

In the original packaging at temperature between 5°C and 35°C and protected from direct sunlight. Shelf life: 12 months.

Health hazard: Vrska U does not contain toxic substances, nevertheless it is necessary to take care not to come to contact with skin, eyes or not to be swallowed. In case of splashing on the skin or in the eyes, it is necessary to rinse with pure flowing water. If it has been swallowed, it is necessary to ask for medical assistance. Additional information is provided in the Product Safety Data Sheet.

Fire: Vrska U is a non-flammable liquid. Additional information is provided in the Product Safety Data Sheet.

Cleaning and deposit: Cleaning of the Vrska U residues is by using water. The old and used packing should be discarded in accordance with the local relevant regulations for that kind of waste. Additional information is provided in the Product Safety Data Sheet.