



DESCRIPTION

KAR WISO CRETE L is a liquid concrete admixture with a crystalline structure. Its chemical components react with moisture and free lime in the concrete to provide both positive and negative waterproofing. It can be used in all types of buildings, on interior and exterior surfaces for waterproofing purposes. It is suitable for: Foundations -Reinforced concrete walls -Swimming and decorative pools -Underground car parks -Tunnels and dams' Precast concrete elements- Drinking water and wastewater tanks -Treatment plants -Mass concrete It is particularly effective for fore-piled foundation waterproofing. Being liquid, it does not cause lumping during mixing. It remains continuously active and protects concrete reinforcement from corrosion. It does not block concrete breathability. It increases concrete strength and freeze-thaw resistance. It is chloride-free

PRODUCT FEATURES	AREAS OF USE
Makes concrete impermeable to high water pressure from both positive and negative sides Continuously active Excellent compressive strength Usable in fore-piled foundation waterproofing Increases concrete strength and freeze-thaw resistance Does not prevent concrete from breathing Protects reinforcement from corrosion Chloride-free Easy and fast application Reduces labor and time costs	Suitable for properly prepared surfaces such as: Foundations Reinforced concrete walls Fore-piled foundations Swimming pools Underground car parks Tunnels and dams Precast concrete elements Treatment and drinking water tanks Mass concrete for positive and negative waterproofing Ready-to-Use: Follow application instructions. Consult the manufacturer for other surfaces

IMPORTANT NOTICE

Related Standard	EN 934-2
Product Class	Table 9
Document Number	255-CPR-233

Product System	Waterproofing
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PACKAGING DETAILS

- **Packaging:** 30 kg plastic drum, 200 kg plastic barrel

CLEANING INSTRUCTIONS

- Small spills: immediately clean with water before hardening.
- Equipment: clean with water immediately after use.
- Contaminated or unusable material: dispose according to local regulations.

TECHNICAL INFORMATION

Property	Value
Optimum Dosage	2–3%
Water/Cement Ratio	0.55
Application Temperature	+8°C to +30°C
Working Time	45 minutes
Public Works Item No	04.477/3
Color	Light Brown
Density	1.15 ± 0.03 kg/L
Pressure Water Resistance	14 bar, positive and negative
pH	≥10.00
Chemical Composition	Inorganic mixture
Water Transmission Rate	≤ 0.10 kg/m ² ·h
Water Vapor Transmission Rate	<0.5
Test Conditions	28 days at +23±2°C and 50±5% RH

SURFACE PREPARATION

All surfaces must be clean, dry, sound, and free from dirt, grease, oil, wax, detergent, or any contaminants that may affect adhesive performance. Loose lime, chalked, cracked, or flaking coatings must be removed manually, with wire brushes, sanding, pressure washing, or sandblasting. Remove dust by vacuuming or sweeping; residual dust reduces adhesion. Ensure surfaces are level before application. Cracks, voids, or damage should be repaired with Kar Repair mortar and application of KarSer Granit should be done 3–4 days later. For marble, ceramic, or cobblestone surfaces, roughen surfaces and remove dust by vacuuming. Mineral surfaces must be moistened with water at least 30 minutes before application. For aerated concrete, raw concrete, or gypsum board, primer is recommended at least 1 day before application.

PRODUCT APPLICATION

Wear appropriate work clothing, goggles, and mask during application. Shake 30 kg containers thoroughly before use. Typically add 2–3% by cement weight to mixer water on site or at the batching plant. Pre-testing is recommended for special applications. Recommended Dosage by Water/Cement Ratio: $w/c \leq 0.45 \rightarrow 2\%$ by cement weight $0.45 < w/c \leq 0.50 \rightarrow 2.5\%$ by cement weight $0.50 < w/c \leq 0.55 \rightarrow 3\%$ by cement weight. Mix for 3–5 minutes after addition to ensure homogeneity. Concrete with $w/c > 0.55$ is not suitable for waterproofing with KAR WISO CRETE L. Working time after addition: ~45 minutes. For Cem II and Cem III cements, use retarders if necessary. Pre-test recommended. Do not store below +8°C; crystallization may occur but will dissolve at room temperature without affecting performance. Reduce mixing water by the same amount of admixture added to improve strength. Frothing may occur in concrete with admixture..

APPLICATION NOTES

Never add lime, cement, gypsum, or other foreign materials.
Surface and ambient temperatures must be between +8°C and +30°C during application and curing.
Do not apply to frozen, thawing, or surfaces at risk of freezing within 24 hours.
Protect application surfaces from direct sunlight, strong wind, and high heat.
Pre-testing per relevant standards is recommended.
Do not use wood, MDF, PVC, or metal surfaces.
Pay attention to w/c ratio; divide large surfaces with protective tape.
Rapid setting in high temperatures is normal.
Ensure proper aggregate grading.
Non-corrosive and safe for reinforcement

PRODUCT LIMITATIONS

No acid resistance. Not suitable for high-temperature areas. Do not exceed recommended dosage. Observe minimum temperature for curing. Working time varies with temperature. Can be added to ready-mix trucks; dissolve in 7–7.5 L water per recommended dosage before adding

CONSUMPTION – SHELF LIFE – STORAGE

Water/Cement Ratio (w/c)	Admixture Dosage by Cement Weight
≤ 0.45	2%
0.45–0.50	2.50%
0.50–0.55	3%

- Shelf life: 12 months in unopened package at +8°C–+30°C.
- Storage: Store unopened in dry environment at +8°C to +30°C. Shelf life: 12 months. Keep container tightly closed.

SAFETY & PRECAUTIONS

Avoid prolonged skin contact, inhalation of dust, vapor, or spray. Causes eye irritation. Ensure ventilation and use CE approved respirator if necessary. Wear chemical goggles or face shield. Wash hands thoroughly after handling.

FIRST AID

- **Skin:** wash with plenty of warm soapy water.
- **Eyes:** rinse for 15 minutes with water and seek medical help. Inhalation: move to fresh air.
- **Ingestion:** do not induce vomiting; seek medical help immediately.

WARRANTY & DISCLAIMER

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