

WATERPROOF MATERIALS

K7 Waterplug

K9 Waerproofing Latex

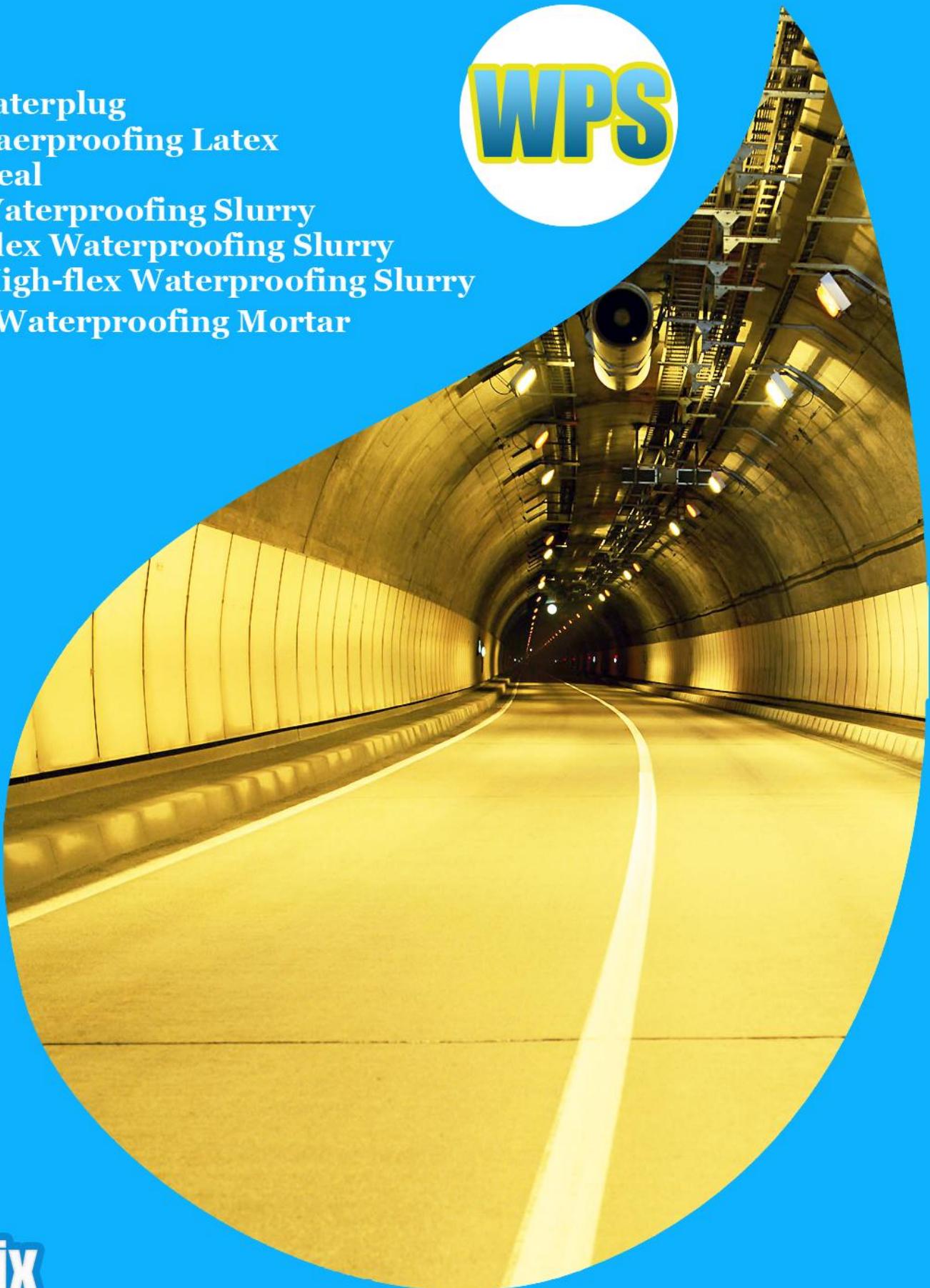
K10 Seal

K11 Waterproofing Slurry

K12 Flex Waterproofing Slurry

K13 High-flex Waterproofing Slurry

WPS Waterproofing Mortar



WPS WATERPROOFING MORTAR (CCCW)

WPS Waterproofing Mortar, the Cementitious Capillary Crystalline Waterproofing Coating(CCCW), is cement based supplied in powder form and formulated from Portland cement, fine quartz sand and active chemicals.

- The chemicals require the presence of water in the capillaries in order to penetrate and form sealing crystals. WPS can make concrete resistant to the water forever.
- This crystal combines with the concrete together to block out water and other liquid.
- When the surface and interior of the concrete come out micro cracks, the active substance can hydrated again and produce new hydrated crystal to block out water.

FEATURES & BENEFIT

- efflorescence-free surface waterproofer
- for concrete, masonry and render
- can be used against active or passive water pressure
- approved for drinking water structures



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25kg/bag

AREAS OF APPLICATION

WPS Waterproofing Mortar is widely used in waterproofing projects on different construction structures such as concrete, masonry and render, which have to be sealed and protected against the influence of water and moisture. WPS can be used for:

- Internal & external basement wall
- Water tanks & Reservoirs
- Swimming pools, Tunnels
- Parking lots, Factory plants

PROPERTIES

- Owing to its composition of cement, quartz with graded grain-size distribution and special chemical ingredients of an inorganic nature, WPS Waterproofing Mortar is not just a painted membrane. The special active chemicals penetrate and become integral with the concrete and is not merely a coating which can be easily damaged.
- It can be employed against active and passive water pressures.
- WPS Waterproofing Mortar is safe to use with potable water.
- The initial and final bonding capability of WPS Waterproofing Mortar is excellent, making it suitable to be applied to horizontal as well as vertical surfaces.
- It is durable, resistant to frost and heat after setting, but all the same permeable to vapour.
- WPS Waterproofing Mortar cannot be used as decorative material.

SURFACE PREPARATION

- The substrate to be sealed must be firm and relatively even, and its surface free from voids, gaping cracks or ridges.
- Bitumen, oil, grease or remains of paint have to be removed by suitable means.
- Laitance and unsound concrete have to be removed by bush hammering or sand blasting.
- The substrate should be well pre-watered and slightly damp at the time of application.

MIXING

By brush or trowel application:

- Place 25 kg of WPS Waterproofing Mortar in a clean container, mix with 7.5 liters of water.

By spray application:

- Mix 25kg WPS powder with 5.75 - 6.25 liters of water.
- Stir for at least 3 minutes with a mechanical mixer.

APPLICATION

- WPS Waterproofing Mortar may be applied with masonry brush trowel or spray equipment.
- Do not apply at temperatures below -5° C, or to a frozen substrate. A maximum of 4 kg/m² can be laid on in one application.
- Provide suitable protection against extreme weather conditions while setting.
- In case of subsequent screeds, renders or tile fixings, the WPS Waterproofing Mortar coating is to

be covered by a thin rough cast of sand and cement 3:1 while still "green".

STORAGE

When stored in a dry place in unopened, undamaged original packaging, shelf life is 12 months.

HEALTH AND SAFETY

- WPS Waterproofing Mortar contains cement. Irritating to eyes and skin may cause sensitization by skin contact.
- Keep out of reach of children. Avoid contact with skin and eyes.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves.
- For further information please refer to Material Safety Data Sheet.

CONSUMPTION

Water sealing problem	Minimum thickness of layer	Approx. minimum amount of sealing slurry to be applied
1. Ground moisture	1.5 mm	3 kg/m ²
2. Pressureless surface water and seepage	2 mm	4 kg/m ²
3. Water under pressure	3 mm	6 kg/ m ²
Max. thickness of layer is 5 mm		

TECHNICAL DATA

PRODUCT INFORMATION

Aggregate state	powder
Color	grey
Bulk density	approx. 1,4 kg/l
Setting time	approx. 2 to 4 hours
Compression strength	40 N/mm ² 28 days air storage 20° C / 65 % relative humidity
Bending tensile strength	6 N/mm ² 28 days air storage 20° C / 65 % relative humidity
Modulus of elasticity	2.14 x 10 4 N/mm ² 28 days air storage / 23° C / 50 % relative humidity
All data are averages of several tests under laboratory conditions. In practice, climatic variations such as temperature, humidity, and porosity of substrate may affect these values.	

For further information consult our Technical Department

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