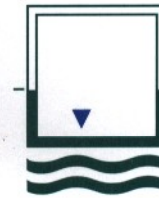
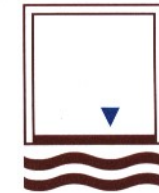


▼ K11–Slurry

–white, –grey, ▼K11–Sulfatex–Slurry



Cellar,
basements
and tanks



Floor and
concrete

Product Description

▼K11–Slurry (white, grey or Sulfatex) offers a well-proven, permanent seal against moisture and pressing water (e. g. ground water). It is suitable for application to all supportive and mineral surfaces, for example for structures covered with soil such as basements, underground garages, concreted structures, swimming pools or also reservoirs for drinking water. It is highly bonding, develops load strength early and also prevents efflorescences. In addition, it is suitable for sealing strips between the basement footing and the brickwall going up. ▼K11–Slurry (white, grey or Sulfatex) must be applied to the water side; if ▼Bonding–Agent is added to ▼K11–Slurry-white or –grey, it can be applied to the negative water side as well. ▼K11–Sulfatex–Slurry protects particularly against waters containing large amounts of sulphate and waters aggressive to concrete. After curing, coatings with ▼K11–Slurry (–white, –grey or –Sulfatex) are frostproof. ▼K11–Slurry (grey + Sulfatex) is resistant to seawater.



▼K11-Slurry-white, ▼K11-Slurry-grey, ▼K11-Sulfatex-Slurry Product Information

Characteristics

Composition

Powdery alkali-reactive silicic acid, adhesive cement.

Features

▼K11-Slurry (-white, -grey or -Sulfatex) provides a waterproof coating that protects against moisture, ground water and other waters. It is highly bonding and develops load strength early. It contains no substances that attack concrete. When first exposed to water, the Slurry will become permanently waterproof. The reaction products penetrate the ground and fill, resp. plug the capillaries. After hardening, the coating is insensitive to frost.

Strict adherence to the instructions is essential in order to ensure the superb durability of our products.

Areas of Application

▼K11-Slurry (-white, -grey or -Sulfatex) offers a well-proven, permanent seal against moisture and pressing water (e. g. ground water). It is suitable for application to all supportive and mineral surfaces, for example for structures covered with soil such as basements, underground garages, concreted structures, swimming pools or also reservoirs for drinking water. It is highly bonding and develops load strength early. In addition, it is suitable for sealing strips between the basement footing and the brickwall going up.

▼K11-Slurry (white, grey or Sulfatex) must be applied to the water side; it can be applied to the negative water side as well if ▼Bonding-Agent is added to ▼K11-Slurry - white or -grey. ▼K11-Sulfatex-Slurry protects in particular against waters containing large amounts of sulphate and waters aggressive to concrete.

Combined Applications

▼Bonding-Agent: You can also seal on the negative water side with ▼K11-Slurry-white or -grey; in this case, mix in ▼Bonding-Agent.

▼K 11-Flex-Slurry: As an alternative product for sealing on the negative water side.

▼Barrier-Mortar: For setting up a drip.

▼K100: When applying a coating with ▼K11-Slurry-grey or -Sulfatex to lightweight concrete or to brickwork built with flush joints, a ▼K100 coating must be applied after the slurries have hardened, approx. 24 hours.

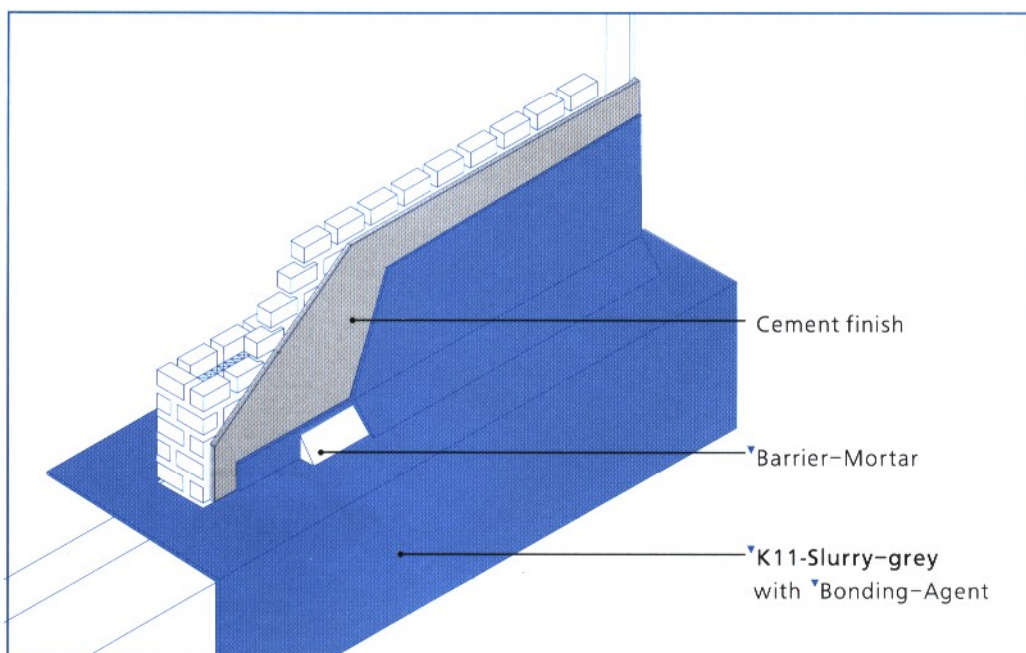
Handling of ▼K11-Slurry is recognized as safe (non-hazardous material acc. to GefStoffV).

▼K11-Slurry (-white, -grey or -Sulfatex) is not suitable for sealing joints or pipe lines or similar. ▼K11-Slurry (-white, -grey or -Sulfatex) is not suitable for spanning flexible parts (e. g. expansion joints). Here we recommend: ▼Styro-Thick-Coating, ▼K100, ▼SK-Coating, ▼SK 2000-S Pit-Membranes and ▼Elastic.

For sealing off waters that are aggressive to concrete as well as waters containing sulphate we recommend ▼K11-Sulfatex-Slurry. Alternatives: ▼K100 or ▼Styro-Thick-Coating or ▼SK 2000-S, Pit-Membranes, resp. ▼SK-Coating.

Right illustration:

Strip sealing and exterior sea- ling with ▼K11-Slurry and ▼Bonding-Agent on a surface plastered with cement mortar



Directions for Use

Prior to Application

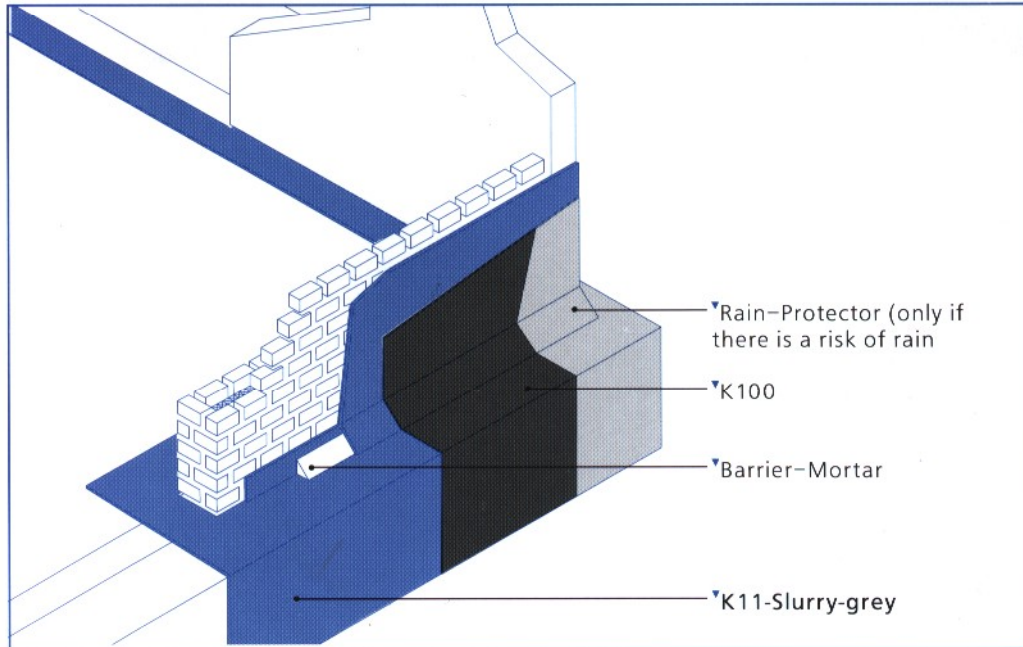
Get organized: Only one person is required for the application of ▼K11-Slurry (-white, -grey and -Sulfatex); he/she can coat approx. 20 qm per hour. The Slurry can be applied starting at temperatures of +5 degrees Celsius. It is extremely sensitive to frost (Consider the danger of night frost!).

Tools, etc.: Mixer, paste brush, brush, spray gun, broom, trowel, pail.

Consider the danger of night frost!

▼K11-Slurry-white, -grey K11-Sulfatex-Slurry

Sheet 2 of 3



Cellar,
basements
and tanks



Floor and
concrete

Also: Protective clothing, gloves, if necessary also goggles.

Calculate how much you will need: Depending on the application and the type of slurry (white, grey or Sulfatex), the thickness of the coating and thus the product requirements per qm will vary.

– Use this guideline for ▼K11-Slurry-white and grey: For protection against moisture contained in soil the coating must have a thickness of 1 mm; this corresponds to a quantity of 2 kg per qm. For protection against pressing water the coating must be 2 mm thick, corresponding to a quantity of 4 kg per qm.

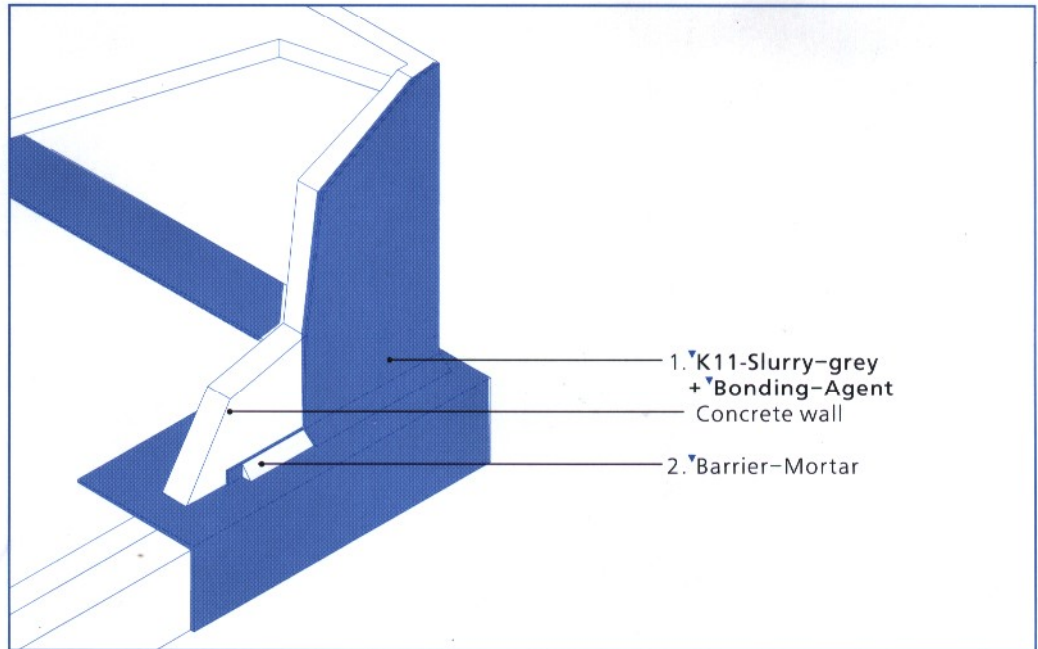
– Use this guideline for ▼K11-Sulfatex-Slurry: For protection against moisture contained in soil the coating must have a thickness of 1.5 mm; this corresponds to a quantity of 3 kg per qm. For protection against pressing water the coating must be 3 mm thick, corresponding to a quantity of 6 kg per qm.

Prepare surface: The base must be sound, for the most part level, with the surface being fine pored and free of voids, wide cracks or ridges. Separation layers of bitumen, grease, paint, oil, forming oil etc. must be brushed or ground off. Break the edges, round off grooves with ▼Barrier-Mortar so that they are flush and set up a drip with ▼Barrier-Mortar for protruding base plates.

▼K11-Slurry
-white, -grey
K11-Sulfatex-Slurry

Sheet 2 of 3

Right illustration:
Strip sealing and exterior
sealing of concrete with
▼K11-Slurry grey and
▼Bonding-Agent



Application

1. Measure mixing water: For 25 kg of slurry you will require 9 liters of water.
2. Pre-wet the surface: The surface must be wetted down generously, resp. it should be thoroughly moist. Time the wetting procedure so that when the coating is applied the surface is no longer shiny.
3. Prepare ▼K11-Slurry (-white, -grey or -Sulfatex): Slowly pour small amounts of mixing water into the slurry (not the other way around!) in order to obtain a plastic consistency. Make sure that the mixture is blended thoroughly so that an optimum homogeneity is achieved.
4. Special case: If you apply ▼K11-Slurry-white or grey to the negative water side, add ▼Bonding-Agent to the mixing water. We recommend a mixing ratio of 3 parts (water) to 1 part (bonding agent). Mix the two ingredients thoroughly.
5. Coating: Apply ready-mixed slurry using a floor brush, broom or spray gun.
6. Subsequent applications: You need to apply at least two layers of coating, ensuring that the subsequent coating is spread onto the previous coating only if it has not yet dried completely. Be sure to cover the surface evenly, so that the coating is no thicker than 5 mm at any point, while it should not fall short of 1 mm (for ▼K11-Slurry-white or grey) resp. 1.5 mm (for ▼K 11-Sulfatex-Slurry) on the other hand.

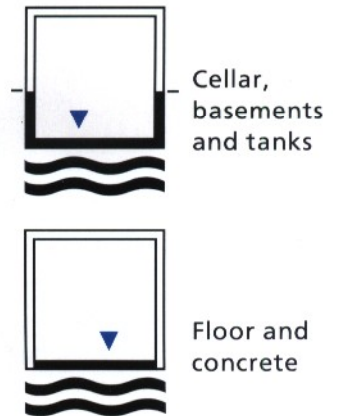
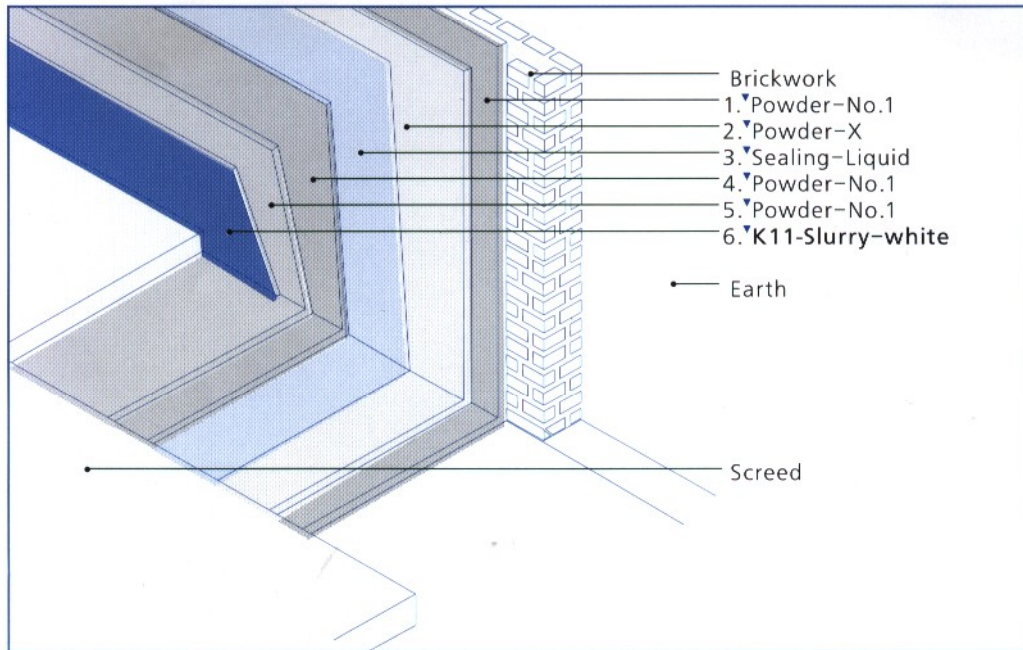
If ▼Bonding- Agent is contained in the mixing water, the bonding strength and elasticity of the slurry are generally increased. You may add 10 to 30 %. Mix both ingredients thoroughly.

Do not try to shorten the drying period by setting up fans or similar devices, as this will weaken the quality of the seal.

The coating must be no thicker than 5 mm at any point, otherwise cracks could appear.

▼K11-Slurry
-white, -grey
K11-Sulfatex-Slurry

Sheet 3 of 3



Left illustration:
Sealing and decorative presentation with
▼K11-Slurry-white on
▼Special-Coating

Intensive exposure to sunlight or rain during curing will weaken the sealing quality.

After Application

Safety measures: Protect the finished coating against rain and intense exposure to sunlight, and make sure it does not dry out too fast.

Cleaning: Rinse off tools and soiled areas immediately with water; hardened residues can only be removed mechanically (e. g. scraped off).

Breaking strength: After approx. 2 days the coating is safe for walking and ready for subsequent applications (e.g. paint jobs).

Curing: Pot life lasts 2 – 3 hours, setting begins after 4 – 6 hours, and ends after 6 – 8 hours, full hardening after approx. 28 days.

▼K11-Slurry -white, -grey K11-Sulfatex- Slurry

Sheet 3 of 3

Packaging, Storage and Disposal

Packaging: ▼K11-Slurry-white and -grey 25 kg bags; ▼K11-Sulfatex-Slurry 25 kg bag. The bags are humidity-proof (2 layers of paper and 1 PE-plastic foil). Colour: ▼K11-Slurry-grey and ▼K11-Sulfatex-Slurry are grey. ▼K11-Slurry-white is white and can be pigmented by adding cement pigments (up to 3 % of weight); corresponding cement pigments are available on request.

Shelf life: ▼K11-Slurry-white can be stored in its original packaging for a period of one year, ▼K11-Slurry grey and ▼K11-Sulfatex-Slurry can be stored in their original packaging for a period of approx. 2 years after delivery without any losses in quality (see date of delivery). Store slurry in closed packaging in a dry area. It is insensitive to frost.

Delivery: Ex works or via our outside warehouses.

Disposal: Packaging and material may be disposed of via domestic garbage.

Please refer to the information on the packaging as well.

Any more Questions?

Please direct these to our sales staff or to our Technical Advisory Service in the Wiesmoor plant:
(0 10 49) 49 44 3 02-0.

All of the information provided has been compiled to the best of our knowledge. We recommend that the suitability of our products be ascertained prior to application by means of matching the treatment to the individual conditions and testing the product if necessary. Liabilities cannot be derived from this technical information. Our general sales, delivery and payment conditions are valid.

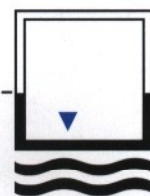


Deutsche HEY'DI
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Telex: 2 74 38

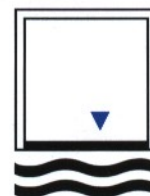
Product description	
Application	<p>▼K11-Slurry-grey offers a well proven, permanent seal against moisture and pressing water (e.g. ground water). It is suitable for application to all supportive and mineral surfaces, for example structures that are covered with soil such as cellars, underground garages, concrete structures, swimming pools or containers for drinking water. It is also suitable for sealing strips between basement footings and the wall structure rising from them.</p> <p>▼K11-Slurry-grey must be applied to the side facing the water; if ▼Bonding-Agent is added, it can be applied to the opposite side as well.</p>
Composition	Powdery, alkali reactive silicic acid, bonding agent, cement.
Features	<p>▼K11-Slurry-grey provides a waterproof coating that protects against moisture, ground water and other water. It has very good adhesive properties, it can bear loads quickly and prevents efflorescence. It contains no substances that could cause corrosion in metals. As soon as the slurry is exposed to water it becomes permanently waterproof. The reaction products penetrate the prepared surface and fill or block the capillaries. After hardening the coating is frost resistant.</p>

K11-Slurry-grey

Technical Data Sheet



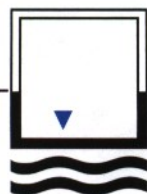
Cellar, basements and tanks



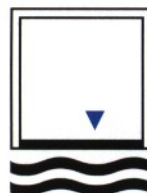
Floor and concrete

Specifications for application	
Setting	<p>Pot life: approximately 2 hours. Setting begins after 4-6 hours. Setting is finished after 6-8 hours. Fully hardened after approximately 28 days.</p>
Working protection	The slurry is not a dangerous substance. It is recommended to wear the appropriate clothing and gloves and, if necessary, protective goggles.
Working time	1 person requires approximately 1 hour to cover 20 qm
Type of application	brushing or spraying procedures
Thickness of coating	<p>against ground moisture: 1mm</p> <p>against pressing water: 2mm</p>
No. of coats required	2 applications with 2 kg usage
Complementary material	water, ▼Bonding-Agent, ▼Barrier-Mortar and, if necessary, plaster to make the surface level
Warranty	5 years according to Civil Code
Control	after application for imperfections and even application
No. of persons required	1
Subsequent treatment	strictly avoid any follow-up treatment
Alternatives to product	▼K100, ▼SK-Coating, ▼Styro-Thick-Coating, ▼K11-Flex-Slurry
Cleaner	water
Treatment of surface	The prepared surface must be saturated with water beforehand. In case of uneven floor panels fill the gaps with ▼Barrier-Mortar.
Characteristics of surface	The prepared surface must be sound, reasonably even and free from gaps and ridges.
Working temperature	<p>from +5 degrees Celsius.</p> <p>Do not apply in frosty conditions</p>
Consumption	<p>against ground moisture: 2 kg per qm, against pressing water 4 kg per qm</p>
Tools	mixer, paste brush, brush, spray gun, broom, tun, bucket
Cleaning of tools	immediately after use with water; hardened material mechanically
Special comments	The prepared surface must be thoroughly wet. Obey the mixing quantities. Do not try to speed up drying with ventilators or any similar equipment, this will reduce the sealing quality. Avoid sunlight, rain and quick drying.

▼K11-Slurry- grey



Cellar,
basements
and tanks



Floor and
concrete

Biological/chemical/physical data	
Basis	cement, alcali reactive silicic acid
Safety for walking	after 2 days for further applications
Load stability	after 2 days
Fire prevention hints	non-flammable
Density	settled consistency approximately 1.1 kg per liter
Compressive strength	after 2 days: 7 N per qmm after 28 days: more than 50 N per qmm
Resistance to frost and de-icing salt	after hardening, given
Hazardous material class	none
Consistency	powdery
Conductibility	electrically and heat conductive
Solvent	none
Mixing ratio	for 25 kg slurry approximately 9 liters of water
Shrinkage	less than 2 per 1000
Subsequent applications	after 2 days
Vapour diffusion factor	less than 100
Additives	water resp. ▼Bonding-Agent

Purchase/order/information	
Contact	Contact our sales staff or Technical Advisory Service in our Wiesmoor plant: (0 10 49) 49 44 3 02-0.
Item no.	1106
Suppliers	various outside warehouses or direct from the plant
Disposal	normal domestic garbage
Packaging	humidity proof 25kg paper sacks
Shelf life	▼K11-Slurry-grey can be stored in its original packing for 1 year after delivery with no loss in quality (refer to the delivery date on the delivery note). Please note that the slurry must be kept closed and stored in a dry place. It is not sensitive to frost.

Test certificates	Official Material Test Institute for Stones and Soil, Clausthal-Zellerfeld: According to the requirements of the Technical Leaflet for "cement bonded rigidity and flexible sealing slurry" from the Industrieverband Bau-chemie und Holzschutzmittel e.V. (supervisory contract). Institute for Concrete and Reinforced Concrete, Official Material Test Institute, University of Karlsruhe: Water Resistance with reference to DIN 1048. Institute for Hygiene for the Ruhr Area in Gelsenkirchen: Sealing of Drinking Water Containers. Singapore Institute of Standards and Industrial Research: Calibration of Drinking Water Containers. Chemical Laboratory Lübeck: Testing for Bacteriological Treatment of Mortar and Examination of the change of the pH value in Water through Concrete and ▼K11-Slurry-grey. National Organisation for Potable Water and Sanitary Drainage, Saudi Arabia: Water Resistance. Law Engineering Testing Company, USA: Application with a Negative Water Pressure (▼K11-Slurry + ▼Bonding-Agent)
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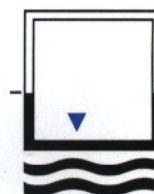


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Product description	
Application	<p>▼K11-Slurry-white offers a well proven, permanent seal against moisture and pressing water (e.g. ground water). It is suitable for application to all supportive and mineral surfaces, for example structures that are covered with soil such as cellars, underground garages, concrete structures, swimming pools or containers for drinking water. It has very good adhesive properties, it can bear loads quickly and prevents efflorescence. It is also suitable for sealing strips between basement footings and the wall structure rising from them. ▼K11-Slurry-white must be applied to the side facing the water; if ▼Bonding-Agent is added, it can be applied to the opposite side as well.</p>
Composition	Powdery, alkali reactive silicic acid, bonding agent, cement.
Features	<p>▼K11-Slurry-white provides a waterproof coating that protects against moisture, ground water and other water. It has very good adhesive properties, it can bear loads quickly and prevents efflorescence. It contains no substances that could cause corrosion in metals. As soon as the slurry is exposed to water it becomes permanently waterproof. The reaction products penetrate the prepared surface and fill or block the capillaries. After hardening the coating is frost-resistant. It is not resistant to salt water.</p>

▼K11-Slurry-white

Technical Data Sheet



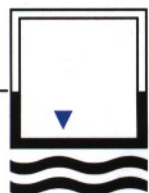
Cellar, foundation and tanks



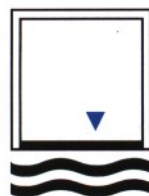
Floor and concrete

Specifications for application	
Setting	Pot life: approximately 2 hours. Setting begins after 4-6 hours. Setting is finished after 6-8 hours. Fully hardened after approximately 28 days.
Working protection	It is not a dangerous substance. It is recommended to wear the appropriate clothing and gloves and if necessary protective goggles.
Working time	1 person requires approximately 1 hour to cover 20 qm
Type of application	brushing or spraying procedures
Thickness of coating	against ground moisture: 1mm against pressing water: 2mm
No. of coats required	2 applications with 2 kg usage
Complementary material	water, ▼Bonding-Agent, ▼Barrier-Mortar, ▼Dash-Coat, ▼Renovating-Render and, if necessary ▼Trass-Cement-Mortar
Warranty	5 years according to Civil Code
Control	after application for imperfections and even application
No. of persons required	1
Subsequent treatment	strictly avoid any follow-up treatment
Alternatives to product	▼K100, ▼SK-Coating, ▼Styro-Thick-Coating, ▼K11-Flex-Slurry, ▼K11-Sulfatex-Slurry, ▼K11-Slurry-grey
Cleaner	water
Treatment of surface	the prepared surface must be saturated with water beforehand. In case of uneven floor panels fill the gaps with ▼Barrier-Mortar.
Characteristics of surface	the prepared surface must be sound, reasonably even and free from gaps and ridges.
Working temperature	above +5 degr. Celsius. Do not apply in frosty conditions
Consumption	against ground moisture: 2 kg per qm, against pressing water 4 kg per qm
Tools	mixer, paste brush, brush, spray gun, broom, tun, bucket
Cleaning of tools	immediately after use with water; hardened material mechanically
Special comments	The prepared surface must be thoroughly wet. Obey the mixing quantities. Do not try to speed up drying with ventilators or any similar equipment, this will reduce the sealing quality. Avoid sunlight, rain and quick drying.

▼ K11-Slurry-white



Cellar,
foundation
and tanks



Floor and
concrete

Biological/chemical/physical data	
Basis	cement, alkali reactive silicic acid
Safety for walking	after 2 days for further applications
Load stability	after 2 days
Bending tensile strength	after 2 days: more than 5N per qmm after 28 days : more than 22N per qmm
Fire prevention hints	non-inflammable
Density	settled consistency 1.1kg per liter
Compressive strength	after 2 days: 7 N per qmm; after 28 days: more than 50 N per qmm
Resistance to frost and de-icing salt	given
hazardous material class	none
Bonding strength	equal to 3 N per qmm
Consistency	powdery
Conductibility	electrically and heat conductive
Solvent	none
Mixing ratio	for 25 kg slurry approximately 9 liters of water
Shrinkage	less than 2 per 1000
Subsequent applications	after 2 days
Vapour diffusion factor	less than 100
Impermeability to water	with a water pressure of 15 m WS (28 days): impermeable with a water pressure of 70 m WS (24 hours): impermeable
Additives	water resp. ▼ Bonding-Agent

Purchase/order/information	
Contact	Contact our sales staff or Technical Advisory Service in our Wiessmoor plant: (0 10 49) 49 44 3 02-0.
Item no.	1113
Suppliers	various outside warehouses or direct from the works
Disposal	normal domestic garbage
Packaging	humidity proof 25 kg paper sacks
Shelf life	▼ K11-Slurry-white can be stored in its original packing for 1 year after delivery with no loss in quality (refer to the delivery date on the delivery note). Please note that the slurry must be kept closed and stored in a dry place. It is not sensitive to frost.



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