



SAKRET TWO COMPONENT HYDRO INSULATION TCM.

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Two component hydro insulation TCM for formation of hydro insulation layer.

Application:

- For formation of hydro insulation layer (on vertical and horizontal surfaces) in high humidity premises: bathrooms, kitchens, cellars, balconies, terraces and pools before application of tiles.
- For protection of industrial cement binding material constructions against water penetration (prevents carbonisation process), for example, for hydro insulation of constructions placed in ground (foundations), concrete silos storages, sewage water reservoirs, cattle stalls and similar objects.
- Two component hydro insulation SAKRET TCM forms elastic, waterproof (resistible against positive and negative water pressure), vapour permeable, UV beams and frost resistant coating, that covers cracks, with high adhesive ability.
- For indoors and outdoors works.
 - For acid and alkaline environment
- For appliance on stable, mineral foundations – concrete, porous concrete, bricks, plastering (plastering class CS II, CS III and CS IV) and other cement base foundations.

Qualities:

- Decreases absorbability of surface.
- Strengthens surface.
- Good adhesion with foundation.
- Grey colour.
- Does not contain organic solvents.

Components:

- Water polymer dispersion
- Cement
- Rheological additives

Foundation preparation:

- Foundation must be firm enough and without cracks. Clean the foundation from less enduring and/or detachable layers (for example, dirt, dust, oils, paint leftovers etc.)
- Before applying of hydro insulation, dense and clean surfaces shall be damped with clean water, but dusty and not dense foundations shall be primed with TCM Primer.
- In concrete floor the deformation joints have to be covered with elastic, compressing tape SAKRET D, processing it into intermediate layer of hydro insulation. When processing hydro insulation in balconies and terraces, the walls and floor in connecting points shall be additionally compressed with tape SAKRET D and corner elements SAKRET Din / Dex.
- In case of doubt about suitability of the foundation, you should consult with distributors or SAKRET representatives.

TECHNICAL DATA SHEET



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Technical data:

Characteristic of components:	Component A	Component B	
Consistence:	powdery	liquid	
Colour:	grey	white	
Volume weight (kg/dm ³):	1,35	1,15	
Storage:	12 months in original packing	12 months in original packing	
Characteristic of mixture:			
Colour:	grey		
Proportion of components:	A:B=2,5:1		
Mass Consistence:	Plastic mass		
Consumption (in two layers, if one layer thickness is 1mm), kg/m ² :	2,8		
Volume weight (kg/dm ³):	1,4		
Processing time:	up to 1 hour		
Air and foundation temperature:	from +5°C till +25°C		
May be covered with tiles:	After 24 hours in temperature 20 ^o and relative air humidity 50% (After hardening of TCM)		
Mechanical features:	Test method	Requirements	Two Component Hydro insulation values
Initial adhesion N/mm ²	EN 14891	>0,5	1,90
Adhesion after immersion in water, N/mm ²	EN 14891	>0,5	0,66
Adhesion after heating, N/mm ²	EN 14891	>0,5	1,40
Cracks bridging ability +23°C, mm	EN 14891	>0,75	2,50
Cracks bridging ability -5°C, mm	EN 14891	>0,75	2,10
Cracks bridging ability -20°C, mm	EN 14891	>0,75	1,90
Permeability of water under negative pressure (1,5 bars)	EN 14891	endures	endures
Permeability of water under positive pressure (1,5 bars)	EN 14891	endures	endures
Capillary absorption and water permeability (kg/m ² h ^{0.5})	EN 1062-3	< 0,10	0,087
Static crack-bridging at +23°C, µm	EN 1062-7	>500	810
Static crack-bridging at -10°C, µm	EN 1062-7	>500	650
Adhesion on concrete plate, N/mm ²	EN 1542	>0,5	1,55
CO ₂ permeability	EN 1062-6	S _D >50m	>200m
Maximum tensile strength, N/mm ²			0,70
Elongation at break, %			120
Elastic modulus, N/mm ²			2,44

Processing:

- Pour liquid component (B) in clean container and add dry component (A) (Packing container of components can be used for mixing); mix until homogeneous mixture of needed consistency without lumps is formed. Proportion of components B: A is 1:2.5.
- After readiness time, approx. 3 minutes material shall be mixed again.
- Prepared hydro insulation shall be applied with putty knife or brush on previously prepared surface.
- Hydro insulation shall be applied in two layers. The second layer is applied perpendicular to the first layer, not earlier than 4-6 hours, after first layer is hardened and cannot be damaged mechanically.
- Hydro insulation shall be processed within 60 minutes.
- Total recommended layer thickness of hydro insulation is ≥ 2 mm.

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Additional recommendations for processing:	<ul style="list-style-type: none">• Hydro insulation shall be processed within 60 minutes.• Avoid formation of flow-downs.• Liquid component (B) or water must not be added to the material that has started to harden, because this may cause cardinal changes of hydro insulation's qualities.• Tools must be washed with water, straight after work is finished.• Hardening time depends on temperature, air humidity and layer thickness.
Consumption:	<ul style="list-style-type: none">• Consumption (in two layers, if one layer thickness is 1 mm) is 2,8 kg/m². Note that consumption of hydro insulation depends on the qualities of the surface to be processed - facture, porosity etc., as well as on the hydro insulation application method and conditions.
Packing:	<ul style="list-style-type: none">• 20 litres bucket (set of 5 litres liquid component B and 12,5 kg powdery component A)
Storage:	<ul style="list-style-type: none">• Protect packing from impact of weather conditions.• Storage time in original, unopened packing – 12 months
Utilization:	<ul style="list-style-type: none">• Unused material and packing shall be utilized in accordance with the requirements of local legislation
Safety information:	<ul style="list-style-type: none">• Safety signs are on packing and in safety data sheets.
Additional information:	<ul style="list-style-type: none">• During hardening phase must be kept away of sun beams, draught, frost and too high temperature (> +25°C).• Technical data refer to temperature +23±2°C and relative air humidity 50±5%.

Colour	Packing 1	Packing 2	Barcode
Grey	5 litres +12,5 kg		4751006565234

The information provided in the technical data sheet refers to the usage of the above product, if there is no other technical documentation, prepared and issued by the producer. The producer is not responsible for losses caused by wrong usage of the given product. In case of questions or uncertainty, please contact producer or seller. Information on product's safety is available in safety data sheets.