

520

cement based water-proof membrane



Two-component

Waterproofing and crack-bridging

for indoor and outdoor use



General product description

Flexible, two-component cement based waterproof membrane, crack-bridging, hydraulic-setting, for flexible sealing under ceramic tiles on balconies, patios and in showers, suitable for indoor and outdoor use with general technical approval.

Applications

wedi 520 flexible waterproof cement based membrane is suitable for flexible waterproofing under tiles:

- For use on cantilever balconies, patios and in showers.
- In combination with ceramic tiles and stone for indoor and outdoor use.
- For walls and floors in wet areas.
- Officially approved for composite waterproofing in wet areas, per ANSI A118.10-1999
- For use with wedi sealing tape and subliner membranes Dry & Flex

Product properties

- Two-component, easy to mix in optimal component ratio.
- Aging-resistant, insensitive to environmental influences.
- Crack-bridging, provides good protection against subsequent surface cracking.
- Waterproof and frost-resistant, for universal indoor and outdoor use.

Surface requirements

Mineral surfaces of concrete, lightweight concrete, cellular concrete (interior), cement and lime cement plaster, plasterboard and gypsum fiber board, masonry cement, flush-jointed, level masonry (not brick-lined masonry), cement screeds, calcium sulfate screeds (anhydrite and anhydrite flowing screeds), dry screeds, old ceramic tiles, cement and fiber cement boards.

All surfaces must be firm, bearing, level and not deformable. Surfaces must be free from dust, dirt, loose components and separating agents such as oil, grease, wax, paint and coatings. Existing cracks must be sealed with a suitable material.

Highly absorbent, mineral surfaces (slightly sandy cement plasters, gypsum plasters, anhydrite screeds, etc.) as well as gypsum fiber boards and gypsum Drywall boards must be primed. Any sinter layers must previously be removed.

Smooth, non-absorbent surfaces (e.g. old tiles) and old paint coatings, carpet adhesive, etc., which cannot be removed, must be primed.

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In case of doubt, the product should previously be tested on a small area!

The residual moisture content must not exceed the following values:

| | |
|----------------------------------|------|
| Cement screeds: | 2.0% |
| Calcium sulfate screeds: | 0.5% |
| Heated calcium sulfate screeds: | 0.3% |
| Gypsum based plasters: | 1.0% |
| (measurement with CM instrument) | |

Magnesite based screeds must be primed with the product wedi 130.

Processing

The product must be applied in two applications, each with full area coverage. The minimum dry layer thickness is 1/8".

Mixing the product:

Brush application:

Mix 22 lbs of liquid component + 34 fl. Oz of water with 44 lbs of powder component without lumps in a clean mixing container. For partial quantities: 2.2 lbs of liquid component + 3.4 fl. oz of water + 4.4 lbs of powder component.

Trowel application:

Mix 22 lbs of liquid component with 44 lbs of powder component without lumps in a clean mixing container. For partial quantities: 1 part by weight liquid component to 2 parts by weight powder component.

The first coat is a bonding layer which should be applied liberally using a brush or as a scratch coat to obtain a good waterproof barrier. Corners and chipped edges must be fully covered. Pipe openings and floor drains must be sealed with wedi sealing sleeves, whilst wedi sealing tape must be used for corner joints and floor and wall junctions. For this purpose, use wedi sealing tape in the first layer and cover with the second layer.

When the first layer is dry, a 2 or 3 minimum coats of the product must be applied using either a trowel or a 1/4" x 1/4" notch trowel and the ridges subsequently smoothed or a large brush or lamb-skin paint roller.

Surfaces treated with wedi 520 cement based waterproof membrane can be tiled after about 24 to 48 hours. Tiles for outdoor use must be laid without voids as far possible.

Note:

Always apply wedi 520 on the side of the structure facing the water. Material that has begun to set must not be diluted with water or mixed with fresh wedi 520. No additives must be added to wedi 520. wedi 520 is not approved for drinking water tanks. A fresh coating must be protected from extreme thermal load, direct exposure to sunlight, drafts, frost and rain.

Instructions for cleaning tools

Tools and cleaning tools: Bricklayer's brush, smoothing trowel, serrated trowel, lambskin paint roller, brush. Clean tools with water immediately after use.

Technical data

Composition: Powder component: Special cement mortar with selected admixtures and additives

Liquid component: Modified acrylate dispersion

Mixing ratio:

22 lbs liquid component to 44 lbs powder component

Density of mixed material: about 3.875 lbs/l

Slake time: Allow 3 minutes before applying

Processing time (at +68 °F/50% relative humidity): about 1 to 1.5* hours

Processing temperature: +41 °F to +77 °F

Drying time:

About 2 hours after first layer, each further layer about 3 hours*

Imperviousness to water:

at +41 °F: about 10 hours, at +68 °F: about 5 hours

Loadability

 (at +68 °F and 50% relative humidity)

Ready to walk on after about 24 hours*

Can be tiled after about 24 hours*

Water-proof after about 7 days*

* Higher temperatures and humidity will reduce, lower temperatures will increase the specified times.

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Consumption

wedi 520 component A (powder) with 1/8" dry layer thickness (about 3/32" wet layer thickness): about 6.6 lbs/sqft
wedi 520 component B (liquid) with 1/16" dry layer thickness (about 3/32" mm wet layer thickness): about 3.3 lbs/sqft

Color

gray

Form of delivery

Powder component: 44 lbs paper bag
Liquid component: 22 lbs can

Storage

Store dry, closed in original container; can be stored for 6 months.

Safety information

wedi 520 – 2-component, cement based waterproofing and crack bridging membrane – powder component

- Material number 520S

Danger – irritant

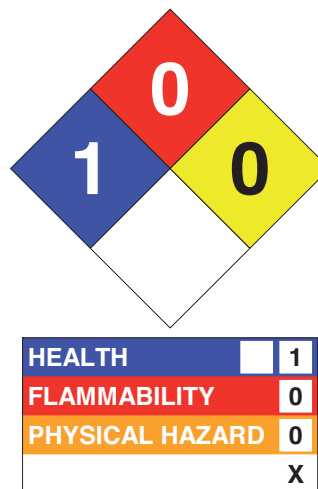
Keep out of the reach of children. Do not breathe dust. Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.

First aid

- Following inhalation: Provide fresh air. In the event of discomfort seek medical treatment.
- After skin contact: Remove contaminated clothing. After contact with skin, wash immediately with soap and plenty of water. Seek medical treatment in case of troubles.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
- After swallowing: Rinse mouth and drink large quantities of water. Do not induce vomiting. Immediately get medical attention.

Personal protection equipment

- Keep away from food, drink and animal feedingstuffs.
- Take off immediately all contaminated clothing.
- Do not breathe dust. Avoid contact with skin and eyes.
- Do not eat, drink, smoke or sneeze at the workplace.
- Wash hands and face before breaks and after work and take a shower if necessary.
- Protect skin by using skin protective cream.
- Respiratory protection: In the case of the formation of dust: Respiratory protection mask with adequate filter (FFP) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.
- Hand protection: Cotton gloves. Please note OSHA Standard - 29 CFR: 1910.138.
- Eye protection: Tightly sealed safety glasses according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2003.
- Skin protection: Wear suitable protective clothing.



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wedi 520 – 2-component, cement based waterproofing and crack bridging membrane – liquid component

- Material number 520L

First aid

- Following inhalation: Provide fresh air. In the event of discomfort seek medical treatment.
- After skin contact: Change contaminated clothing. Remove residues with soap and water. Do not use solvents or thinners. In case of skin reactions, consult a physician.
- After eye contact: With eyelids open, wash out eyes for several minutes under flowing water. In case of troubles or persistent symptoms, consult an ophthalmologist.
- After swallowing: Rinse mouth immediately and drink large quantities of water. Do not induce vomiting. Consult physician.
- Information to physician: Treat symptomatically.

Personal protection equipment

- Change contaminated clothing.
- When using do not eat, drink or smoke.
- Wash hands before breaks and at the end of work.
- Respiratory protection: Use breathing protection with splashing medium.
- Combination filter according to OSHA Standard – 29 CFR: 1910.134 or ANSI Z88.2

- Hand protection: Protective gloves according to OSHA Standard – 29 CFR: 1910.138.
- Glove material: Nitrile rubber-Breakthrough time: >480 min.
- Unsuitable materials: leather.
- Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Eye protection: Risk of splashes: Tightly sealed safety glasses according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2003.
- Skin protection: Risk of splashes: Protective work clothing

