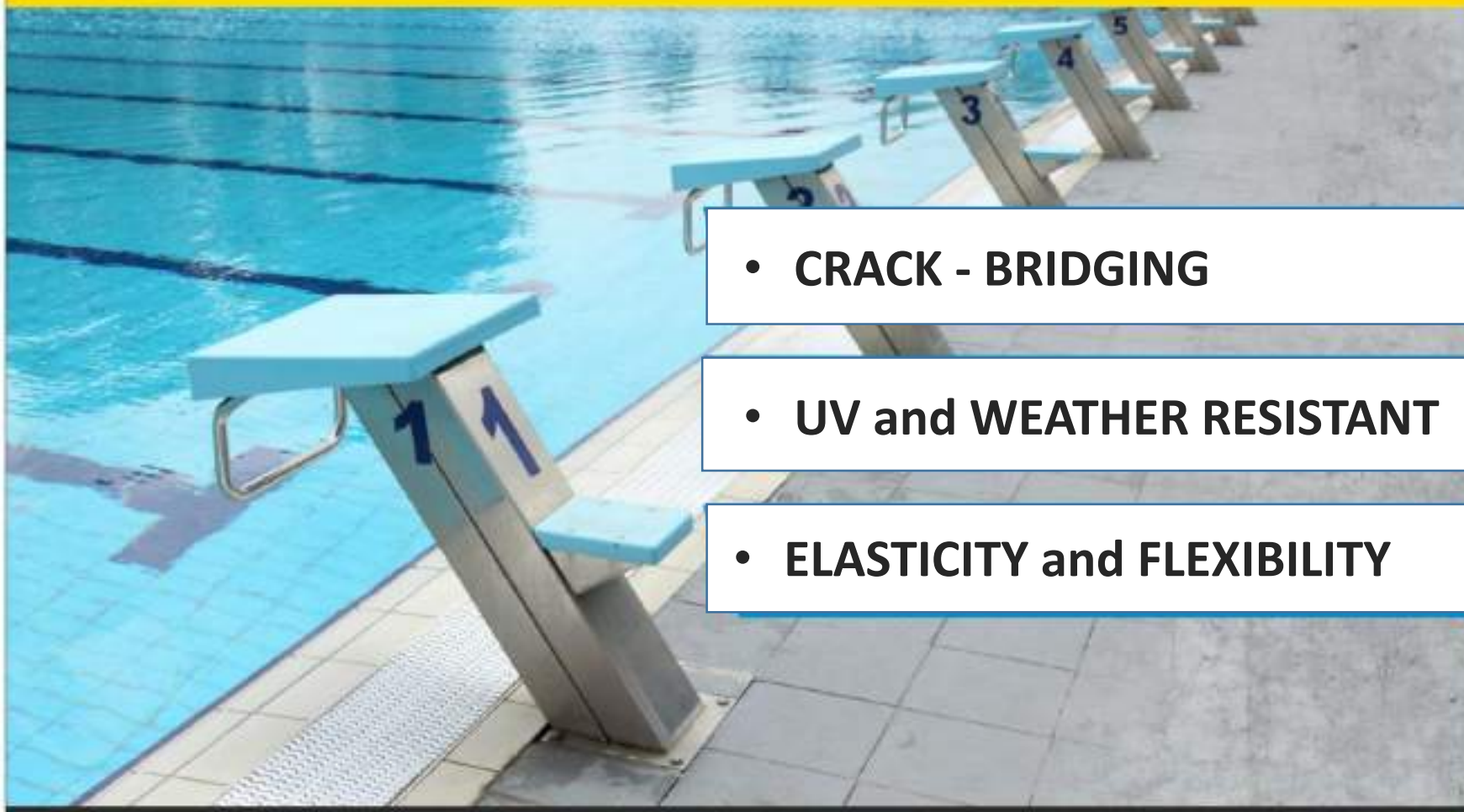


# DEKO

professional



- **CRACK - BRIDGING**

- **UV and WEATHER RESISTANT**

- **ELASTICITY and FLEXIBILITY**

- **HYDRO-INSULATION COATINGS AND SYSTEMS BY **

## **DEKO Professional®**

### **Hydro-Insulation**

*They are used for hydro-insulation of bathrooms, shower rooms, rooms subjected to high humidity, swimming pools, baths, water tanks, waterproofing balconies, before laying ceramic tiles, granite or stone. Thin-layer hydro-insulation on old terraces without destroying the existing flooring / old tiles, mosaic, etc. /. Protection from moisture of panels made of plasterboard, fiber cement, chipboard, ABS, metal, etc. For internal and external use.*

# DEKO Professional® Hydro Protect FLEX

*Highly elastic two-component  
waterproofing on cement base - comp. A + B*



**Usage:** For the hydro-insulation of bathrooms, shower rooms, rooms subject to high humidity, swimming pools, bathtubs, water tanks, hydro-insulation of balconies, before laying ceramic tiles, granite or stone. Thin-layer hydro-insulation of old terraces without destroying the existing flooring (old tiles, mosaic, etc.). Protection from moisture of panels made of plasterboard, fiber cement, chipboard, ABS, metal, etc. Crack-bridging up to 1.5 mm.

**Consumption:** 1,7 kg/m<sup>2</sup> for each mm thickness; Total 4,5 – 5,5 kg/m<sup>2</sup> from both components.

**Packaging:**

- 32 kg (Component A: 24 kg, Component B: 8 kg)

# DEKO Professional® Hydro Protect FLEX

*Highly elastic two-component cement based hydro-insulation – comp. A+B*

Product meets National Standard BNS EN 14891:2012.



## EXPLOITATION INDICATORS ACC. EN 14891:2012 (E)

- Crack-bridging under standard conditions  $\geq 0,75$  mm;
- Crack-bridging at low temperatures ( $-20^{\circ}\text{C}$ )  $\geq 0,75$  mm;
- Water resistance under pressure 1,5 bar (15 m water column) – no penetration.

**The product is a waterproofing membrane and completely protects against WATER!**

# DEKO Professional® Hydro Protect FLEX

*Highly elastic two-component  
cement-based waterproofing*

## Properties

- ✓ Resistant to hydrostatic pressure up to 1,5 bar (15 m water column);
- ✓ Excellent UV resistance;
- ✓ Water-permeable and anti-carbonizing effect;
- ✓ Provides coverage of structural micro-cracks of the base with a width of up to 1.5 mm;
- ✓ Good application behavior;
- ✓ Good storage behavior;



## Main advantages of Deko Professional® Hydro Protect FLEX

- ✓ *High-elastic coating, ensuring bridging cracks up to 1,5 mm;*
- ✓ *Thin-film coating, particularly suitable for laying where lifting at the surface level is not desirable;*
- ✓ *High resistance to hydrostatic pressure – 15 m water column (1,5 bar);*
- ✓ *Totally compatible to all next layer cement based coatings or adhesives;*
- ✓ *High tensile adhesion to the substrate;*
- ✓ *Ready-to-mix components (dry mixture and liquid polymer);*
- ✓ *East to apply;*

Maximum application thickness 2 mm for one layer.



# DEKO Professional® Hydro Protect

*Flexible two-component cement based hydroinsulation - comp. A + B*



**Application:** For hydroinsulation of bathrooms, shower rooms, rooms with high humidity, pools, bathtubs, water tanks, hydroinsulation of balconies, before laying ceramic tiles, granite or stone. Thin-layer hydroinsulation of old terraces without destroying the existing flooring (old tiles, mosaic, etc.). To protect concrete from carbonization caused by high CO<sub>2</sub> concentration in waste gases (in tunnels, bridges) as well as from salt and sulphate attacks on seawater. Protection from moisture of panels made of plasterboard, fiber cement, chipboard, ABS, metal, etc.

**Consumption:** 1,7 kg/m<sup>2</sup> for each mm thickness; Total 4,5 – 5,5 kg/m<sup>2</sup> from both components.

**Package:**

- 26 kg (Component A: 20 kg, Component B: 6 kg)
- 15.6 kg (Component A: 12 kg, Component B: 3,6 kg)

# DEKO Professional® Hydro Protect

*Flexible two-component cement based hydro insulation – comp. A + B*

Product meets National standard BNS EN 14891:2012.



## EXPLOITATION INDICATORS ACC. EN 14891:2012 (E)

- Crack-bridging at standard conditions > 0,7 mm;
- Bridging cracks at low temperatures (-10°C) > 0,5 mm;
- Water resistant under pressure 1,5 bar (15 m water column) – no penetration.

**The product is a waterproofing membrane and completely protects against WATER!**



# DEKO Professional® Hydro Protect

*Flexible two-component cement based hydro insulation – comp. A + B*

## Properties

- ✓ Excellent UV resistance;
- ✓ Provides coverage of structural micro-cracks in the base with a width of up to 1.0 mm;
- ✓ Resistant to hydrostatic pressure up to 1,5 bar (15 m water column);



## Advantages of Deko Professional® Hydro Protect

- ✓ *Provides coverage of structural micro-cracks of the base with a width of up to 1.0 mm;*
- ✓ *Thin-film coating, particularly suitable for laying where lifting at the surface level is not desirable;*
- ✓ *High resistance to hydrostatic pressure – 15 m water column (1,5 bar);*
- ✓ *Totally compatible to all next layer cement based coatings or adhesives;*
- ✓ *High tensile adhesion to the substrate;*
- ✓ *Ready-to-mix components (dry mixture and liquid polymer);*
- ✓ *East to apply;*

*Maximum application thickness - 2 mm per layer.*



# DEKO Professional® Liquid one-component Hydroinsulation membrane



**Use:** Intermediate product between base and final product; For internal and external protection of vertical and horizontal concrete surfaces from the harmful effects of soil moisture, surface and underground water; Protection of basements and ground bases of buildings, pools and any other reservoirs; Making effective waterproofing of new or old walls.

**Consumption:** 250 g/m<sup>2</sup>

**Package:**

- 1,5 kg (coverage около 6 m<sup>2</sup>)
- 5 kg (coverage 20 m<sup>2</sup>)
- 15 kg (coverage 60 m<sup>2</sup>)

# DEKO Professional® Liquid one-component Hydroinsulation membrane



## Properties:

- ✓ Fast drying, low odor;
- ✓ High resistance to cracking when applied in a thick layer;
- ✓ Good storage behavior - does not form precipitated sediment, does not change its viscosity over time;
- ✓ It has a high coverage;
- ✓ Excellent atmospheric resistance - protects the surface from harmful atmospheric impacts - water, moisture, temperature changes, etc .;
- ✓ High vapor permeability - microporous coatings to provide "breathing" of the walls;
- ✓ Low water absorption of coatings;
- ✓ It has excellent adhesion to surfaces;

# DEKO Professional® Hydro Protect Mono

*Cement based hydroinsulation, capillary crystallizing for positive and negative pressure*



**Use:** DEKO Professional ® Hydro Protect Mono is a ready-to-use powder mix made of high quality cement, selected aggregates, special synthetic resins and additives. After mixing with water, it forms a liquid solution that can be applied with a flat brush, a trowel or a spray. After drying, it forms a solid coating that becomes an integral part of concrete foundations.

**Consumption:** 1,6 kg/m<sup>2</sup> for 1 mm thickness.

Recommended consumption:

- For low moisture penetration: 2-3 kg / m<sup>2</sup>;
- For tanks and other structures where always exist water: 4-4,5 kg / m<sup>2</sup>;
- For pressurized water up to 1 atmosphere: 6-7 kg / m<sup>2</sup>;

**Package:** Special 25 kg bags, protected against moisture;

# DEKO Professional® Hydro Protect Mono

*Cement based hydro-insulation, capillary crystallizing for positive and negative pressure*



## Use:

- Hydro-insulation of swimming pools, masonry or concrete tanks containing drinking water - water towers, captions, etc.
- Hydro-insulation of concrete or masonry tanks containing sewage;
- As additional smoothing and hydro-insulation of underground walls prior to application of bituminous membranes;
- Hydro-insulation of elevator shafts, exterior and interior walls of cellular concrete, tunnels and underground passages, building foundations, irrigation channels and other wetlands;
- Repair of underground structures subject to permeation with water and moisture in situations with negative pressure up to 1 atmosphere;
- Hydro-insulation of mineral bases without deformation.

# Main advantages of DEKO Professional® Hydro Protect Mono



- ✓ Crystallizes in the pores and capillaries of the concrete in contact with moisture or water;
- ✓ The product is resistant to positive and negative water pressure;
- ✓ Reactivates its crystallizing action to recover itself when a new source of moisture emerges;
- ✓ Vapor-permeable;
- ✓ Excellent adhesion to the substrate to provide permanent hydro-insulation even under negative water pressure up to 1 atmosphere;
- ✓ Resistance to positive water pressure more than 15 m height of water column.

**Deko Professional® Hydro Protect Mono** complies with the principles, as defined in EN 1504-9 ("Prevention and Recovery Products and Systems of concrete structures. Definitions, requirements, quality control and assessment of Compliance General Principles on the Use of Products and Systems ") and the requirements of EN 1504-2 coating (C) according to MC and IR principles (concrete protection system).



The product has a health appraisal for applicability in accordance with the requirements of Ordinance № РД-02-20-1 from 05.02.2015 on the conditions and order of incorporation of construction products in the construction of the Republic of Bulgaria and of Regulation (SB) № 305/2011 of the European Parliament and of the Council of 09.03.2011 laying down harmonized conditions for the marketing of construction products and repealing Council Directive 89/100 / EEC.



## Deko Professional® Hydro Protect Mono



meets requirements for use in drinking water tanks, underground and above-ground concrete and masonry structures, subjected to positive or negative hydrostatic pressure, waterproofing of buildings, premises and facilities with high hygienic and health requirements - health, school and children's facilities, the food industry, etc.

<i>Characteristics/ Product</i>	<i>Deko Professional® Hydro Protect FLEX</i>	<i>DEKO Professional ® Hydro Protect</i>	<i>Deko Professional® Hydro Protect MONO</i>	<i>DEKO Professional® Liquid one-component hydro-insulation membrane</i>
<i>Description</i>	Highly elastic two-component cement-based hydro-insulation	Two-component elastic cement based hydro-insulation	Cement based hydro-insulation	Intermediate product between the base and finish
<i>Consumption</i>	1,7 kg/m <sup>2</sup> for each mm thickness; Total 4,5 – 5,5 kg/m <sup>2</sup> from both components.	1,7 kg/m <sup>2</sup> for each mm thickness; Total 4,5 – 5,5 kg/m <sup>2</sup> from both components.	1.6 kg/m <sup>2</sup> at thickness of layer 1 mm Recommended consumption: For low moisture penetration: 2-3 kg / m <sup>2</sup> ; For tanks and other structures where there is always water: 4-4,5 kg / m <sup>2</sup> ; For pressurized water up to 1 atmosphere: 6-7 kg / m <sup>2</sup> ;	250 g / m <sup>2</sup> 1.5 kg (coverage about 6 m <sup>2</sup> ) 5 kg (coverage about 20 m <sup>2</sup> ) 15 kg (coverage about 60 m <sup>2</sup> )
<i>Use</i>	<ul style="list-style-type: none"> <li>- Bathrooms, basements, showers, rooms subject to high humidity; basements, swimming pools; water tanks;</li> <li>- Terraces or balconies before laying ceramic, granite or stone facing;</li> <li>- Old terraces without destroying the existing flooring (old tiles, mosaic);</li> <li>- For protection from moisture of panels made of plasterboard, fibro-cement, chipboard, ABS, metal, etc.</li> </ul> <ul style="list-style-type: none"> <li>- Internal and external application;</li> <li>- To protect carbonaceous concrete caused by high CO<sub>2</sub> concentration in waste gases (in tunnels, bridges) as well as salt, sulphate and seawater attacks.</li> </ul>	<ul style="list-style-type: none"> <li>- Bathrooms, ointments, shower cabins, rooms subject to high humidity; basements, swimming pools; water tanks;</li> <li>- Terraces or balconies before laying ceramic, granite or stone facing;</li> <li>- Old terraces without destroying the existing flooring (old tiles, mosaic);</li> <li>- For protection from moisture of panels made of plasterboard, fibro-cement, chipboard, ABS, metal, etc.</li> </ul> <ul style="list-style-type: none"> <li>- Internal use.</li> </ul>	<ul style="list-style-type: none"> <li>- Basies, masonry or concrete tanks containing drinking water - water towers, caps, etc .;</li> <li>- Concrete or masonry tanks containing sewage;</li> <li>- As additional smoothing and hydro-insulation of underground walls prior to application of bituminous membranes;</li> <li>- Lift shafts, exterior and interior walls of cellular concrete, tunnels and underground passages, building foundations, irrigation channels and other wetlands;</li> <li>- Repair of underground structures subject to permeation with water and moisture in situations with negative pressure up to 1 atmosphere;</li> <li>- Hydro-insulation of mineral bases without deformation. Approved for contact with drinking water;</li> <li>- Buildings, premises, facilities with high hygienic and health requirements;</li> <li>- Health, educational and childcare facilities;</li> <li>- Premises in the food industry.</li> </ul>	<ul style="list-style-type: none"> <li>- Internal and external protection of vertical or horizontal concrete surfaces from the harmful effects of soil moisture, surface and underground water;</li> <li>- Protection of basements and buried in the ground bases of buildings, swimming pools, reservoirs;</li> <li>- Making effective waterproofing of new or old walls.</li> </ul>

<b>Characteristics/ Product</b>	<b><i>Deko Professional® Hydro Protect FLEX</i></b>	<b><i>DEKO Professional® Hydro Protect</i></b>	<b><i>Deko Professional® Hydro Protect MONO</i></b>	<b><i>DEKO Professional® Liquid one-component hydro-insulation membrane</i></b>
<b>Properties/ Advantages</b>	<p>Provides coverage of structural micro cracks of the base with a width of up to 1.5 mm;</p> <ul style="list-style-type: none"> <li>- Excellent resistance to UV rays;</li> <li>- High elasticity;</li> <li>- Resistance to hydrostatic pressure up to 1.5 bar (15 meters water column);</li> <li>- Thin film coating, particularly suitable for laying, where surface elevation is not desirable;</li> <li>- Fully compatible with all subsequent cement-based coatings or adhesives;</li> <li>- High adhesion strength with the base;</li> <li>- Good application behavior;</li> <li>- Good storage behavior.</li> </ul>	<p>Provides coverage of structural micro cracks of the base with a width of up to 1.0 mm;</p> <ul style="list-style-type: none"> <li>- Excellent resistance to UV rays;</li> <li>- Resistance to hydrostatic pressure up to 1.5 bar (15 meters water column);</li> <li>- Thin film coating, particularly suitable for laying, where surface elevation is not desirable;</li> <li>- Fully compatible with all subsequent cement-based coatings or adhesives;</li> <li>- High adhesion strength with the base;</li> <li>- Good application behavior;</li> <li>- Good storage behavior.</li> </ul>	<ul style="list-style-type: none"> <li>- Crystals in the pores and capillaries of the concrete upon contact with moisture or water;</li> <li>- Resistant to positive and negative water pressure;</li> <li>- Resistance to positive water pressure more than 15 m height of water column;</li> <li>- Reactivates its crystallizing action to recover itself when a new source of moisture emerges;</li> <li>- Vapor-permeable;</li> <li>- Excellent adhesion to the substrate to ensure permanent waterproofing, even under negative water pressure up to 1 atm;</li> <li>- Can be applied directly to places where there is constant moisture.</li> </ul>	<ul style="list-style-type: none"> <li>- Good application behavior - good spreading and leveling of the wet coating;</li> <li>- Excellent atmospheric resistance - protects the surface from harmful atmospheric effects - water, moisture, temperature changes, etc.</li> <li>- High resistance to cracking when applied in a thick layer;</li> <li>- Low water absorption of coatings;</li> <li>- High vapor permeability - microporous coatings to provide "breathing" of the walls;</li> <li>- Excellent grip with surfaces</li> <li>- Has high coverage;</li> <li>- Good layering;</li> <li>- Do not spray or foam when applied;</li> <li>- Fast drying and low odor;</li> <li>- Good storage behavior - does not form a precipitated sediment, does not change its viscosity over time.</li> </ul>

*Deko Professional® Hydro insulation products –  
professional building solutions*

**SAFE AND  
EFFECTIVE  
PROTECTION  
AGAINST POWER OF  
WATER**

