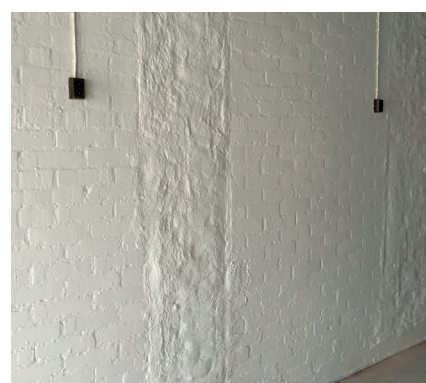
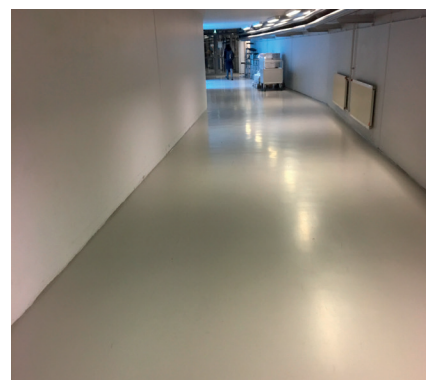


TKR Coatings TKR-Marketing Oy



Vegetable oil-based materials are used in the production of TKR coatings, making them a safe solution both for the user and as a final product. TKR coatings are M1-classified, and they are odourless and solvent-free. They ensure a lasting surface for most cement-based products, metals and wood materials. TKR coatings are two-component.

TKR Basic coating and TKR Gels

TKR Basic coating is most commonly used as the first layer in all coating applications due to its fluidity and adhesive characteristics. TKR Basic coating effectively adheres to the base material and provides a strong surface for further treatments.

TKR Gels have a higher viscosity than basic coatings, and they are used to increase film thickness as well as to coat vertical surfaces. Although TKR Gels are not as fluid as basic coatings, they are still easy and convenient to use.

TKR coatings can be applied using a brush, spatula, roller, syringe, two-component application gun or by spraying.

Properties

- The elastic and antistatic TKR coating protects surfaces to be treated against humidity, corrosion, wear and tear, erosion and shocks.
- TKR coatings are safe to use. Products in the M1 emission class of building materials are emission-free both during installation and as a finished product.
- TKR coating is flexible, tough and waterproof, 0.8 mm film thickness gas tight.
- It attenuates sound and endures oscillation and vibration.
- Strong adhesion and easy application facilitate working on uneven surface materials.
- Tested for various properties, including a product certificate for the waterproofing system and test for ammonia permeability (VTT) and hazardous material permeability (Vahanen).
- Can be roughened to a finished surface using plastic granulate and rubber granules or quartz sand for fixing mortar and filler.

Applications

- Waterproofing of wet rooms
- Coating of old cast iron wells
- Machine and air conditioning rooms, storage spaces, washrooms and bathrooms
- Sealing repairs, including uneven surfaces
- Hazardous substance decontamination and control, encapsulation
- Radon sealing
- Sealing of ventilation ducts from the inside
- Surfaces in the food processing industry
- Floors, loading bridges, expansion joints, skirting boards, stairs
- Walls, ceilings, patios, balconies, store-rooms, garages
- Washrooms and bathrooms, boats, ships, water tanks, drains
- Pumps, turbine houses, sewage tanks and fish ponds, moulded parts, concrete and metal containers
- Corrosion protection for steel structures, vehicles and equipment
- Contact protection for handrails, racks and tools e.g. from frost and static electricity

Technical specifications

Base materials	Concrete, metal, wood, polystyrene, fibreglass, rubber, stone
Working methods	Brush, spatula, roller, casting, spray
Hardness	Adjustable, Shore A40 - A100
Bond strength, metal	100 - 250 kp/cm ² , depending on the hardness Always cohesive failure, the value depends on the adjusted flexibility/hardness
Bond strength, concrete	Mpa 5,3, 100 % concrete failure CE
Portioning	Weighing accuracy +/- 3 %
Pot life	Mixed coating approx. 25 min (T=20 °C)
Hardening	Dust dry 12 h, light wearing 1 day, final hardness 7 days. Second treatment 2-4 h after the first one when T = 16-25 °C. When using as a finished surface on the floor, apply coatings on different days.
Levelling	On horizontal surfaces the product evens out by itself. On slanting surfaces apply many thin layers at 4-hour intervals.
Gas emissions	No harmful gases released during mixing and after hardening.
Dry content	100 %
Density	Plastic part 990 - 1080 kg/m ³
Temperatures	Installation 16 - 25 °C
Wear resistance	< 3000 mg CE
Impact resistance	Category 2: ≥ 10 Nm CE
Fire class	Ventilation ducts: B-s1, d0 Floor: C _{fl} -s1
Gloss	Semigloss Thinner Not used
Coverage	Concrete 1.1 kg/m ² (1 mm thickness) av. 1 kg = 1-3 m ² , Steel av. 1 kg = 2-5 m ²
Filling materials	E.g. washed quartz sand, plastic granulate or rubber granules can be mixed on the surface of or in TKR
Crack bridging capability	Without reinforcement fabric. Film thickness 0.35 mm: 1.9 mm. Film thickness 0.45 mm: 7.1 mm
Shrinkage	Does not shrink Humidity Forms a waterproof film
UV resistance	Direct sunlight can alter the colour of the coating.
Flexibility	+21 °C 70 - 400 %, adjustable
Electrical conductivity	Electrical insulating material, non-conductive
Static properties	Antistatic
Industrial safety	Ready-measured product must not be in contact with skin (it adheres).
Safety data sheet	Delivered with the first order
Shelf life	Properly stored plastic part 24 months from the date of manufacture, hardener 6 months from the date of manufacture.

Tests and certificates

- VTT research report TEX 9910: Determination of tensile strength and the related stretch, resistance, water absorption, water vapour permeability
- VTT research report TEX 978: Tensile test for adhesion testing
- VTT standard SFS-EN 1253-2/9.1.2.: Testing the water tightness of the seam between the gulley and the coating
- Testing the hazardous material permeability, Vahanen
- Waterproofing certificate No. VTT-C-4748-09
- TKR sewer rehabilitation method

- Testing the hazardous material permeability Petroleum hydrocarbon compounds, Vahanen
- VTT Ammonia permeability test for floor covering VTT-S-02095-16, in accordance with Directive 95/28/EC (in accordance with ISO 3795, SFS 5337, DIN 75200 and FMVSS 302)
- Tampere University of Technology: Salt spray tests, Compression strength
- Finnish Institute of Occupational Health: MDI measurement
- Tests required for M1 emission classification, such as Formaldehyde, result < 0.02 mg (m²h)
- Ammonia, result < 0.01 mg (m²h)
- Carcinogens, result < 0.002 mg (m²h)



Colour options

	Colourless 00	
	White 02	RAL 9010
	Light grey 47	RAL 7047
	Light grey 13	RAL 7045
	Light grey 55	RAL 7030
	Dark grey 03	RAL 7012
	Tomato red 09	RAL 3013
	Mahogany brown 19	RAL 8016
	Black 01	RAL 9005

The colours here may deviate from the actual colours.

SALES AND ADVICE

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TKR Plastic by nature