

TKR Marine

Vibration, movement and moisture constantly stress ship and boat structures. Elastic, bio-based TKR coating bridges movement, dampens vibration and seals surfaces watertight, safely even in occupied spaces.



ONLY
★ 3 ★
LAYERS

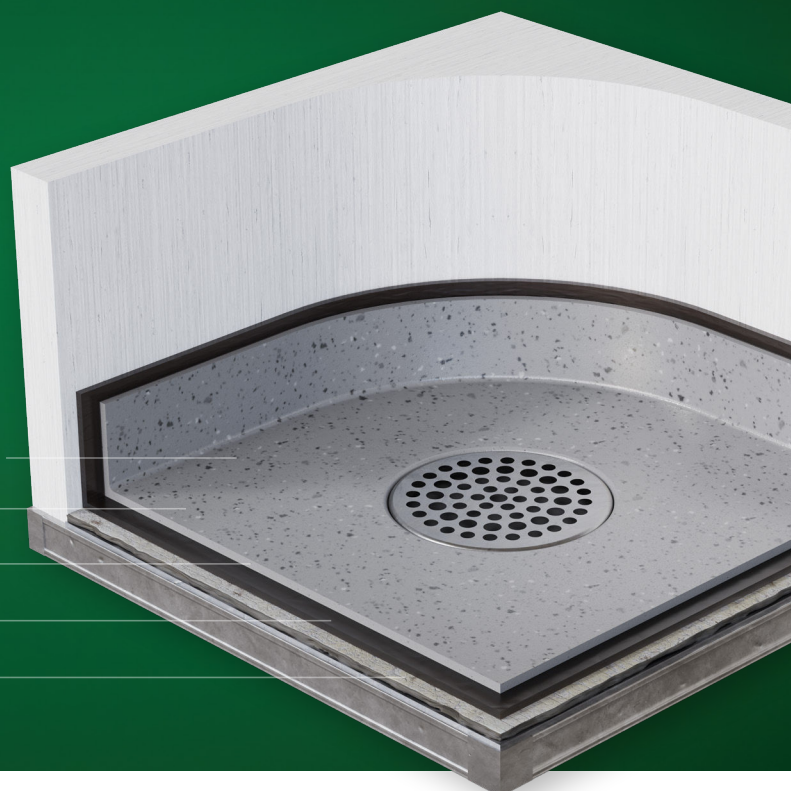
Surface roughening

Wear layer

TKR top coat

TKR base layer

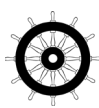
Substrate



Why choose TKR coating for ships and boats?

- **Watertight, airtight and gastight system:** with three coating layers, the space becomes watertight, airtight and gastight, with the final surface ready for use.
- **Elastic and tough:** thanks to its elasticity, the coating offers excellent crack-bridging and vibration resistance. It withstands vessel movements and hull vibration without cracking.
- **Safe installation and use:** minimal compartmentalisation. Work can even be carried out in the same cabin or space where people are staying. Odourless, solvent-free and low-emission (M1).
- **Easy to maintain and repair:** the surface can be easily patched and repaired with the same product, and it can be recoated without replacing the entire surface.
- **Good wear and chemical resistance:** protects against moisture, corrosion and impact even in demanding marine conditions.
- **Easy to apply:** strong adhesion and good spreadability even on uneven surfaces. No special tools required.
- **Finishable appearance:** wide colour range with pigments/additives. Surface roughening or decorative finishes can be created using quartz sand, coloured sands, rubber granules or mosaic flakes.



 Plastic by nature


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Applications

- ✓ **Cabins and living spaces**
 coating can be carried out even in occupied spaces with minimal compartmentalisation, allowing accommodation to continue during the work.
- ✓ **Wet rooms, decks and floors**
 a continuous, watertight membrane and seamless connections to penetrations and drains. A wear-resistant surface whose roughness can be adjusted for the site.
- ✓ **Engine rooms and technical spaces**
 the elastic coating withstands vibration and temperature changes, and protects structures against corrosion and chemicals.
- ✓ **Maintenance and repair**
 control of harmful substances and local repairs with the same product. The structure can always be recoated.

TKR coating extends the service life of structures and reduces lifecycle costs safely, with a clean finish.

Technical Data

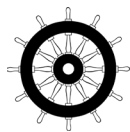
TKR Base Coating
TKR Gel 2 & 4

Colour Chart

TKR Base Coating

Colour shades may vary from printed samples.

	Transparent 00
	White 02 RAL 9010
	Light Gray 47 RAL 7047
	Light Gray 13 RAL 7045
	Light Gray 55 RAL 7030
	Dark Grey 03 RAL 7012
	Red Ochre 09 RAL 3013
	Mahogany 19 RAL 8016
	Black 01 RAL 9005



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Substrates	Concrete, metal, wood, Styrofoam, fiberglass, rubber, stone	
Application Methods	Brush, spatula, roller, pouring, spraying, injection	
Hardness	Adjustable, A10–A100	
Adhesion Strength (metal)	100–250 kp/cm ² depending on hardness. Always cohesive fracture; value depends on adjusted elasticity/hardness	
Adhesion Strength (concrete)	Mpa 5,0, 100 % concrete failure	CE
Mixing Precision	± 3%	
Pot Life	Approx. 25 minutes (T=20°C)	
Curing Time	Dry to touch: 12 h, light use: 24 h, full hardness: 7 days. Re-coating after 2–4 h or when surface has skinned over. T=16–25°C	
Levelling	Self-levelling on horizontal surfaces, multiple thin layers on inclined surfaces every 4 h	
Emissions	No harmful gas emissions during or after mixing	
Solid Content	100 %	
Density	990–1080 kg/m ³ (plastic part), hardener 1230 kg/m ³	
Temperature	Application 16–25°C	Storage 16–25°C
Abrasion Resistance	< 3000 mg	CE
Impact Resistance	Class 2: ≥10 Nm	CE
Fire Class	Ventilation Ducts B-s1, d0	Flooring Cfl-s1
Gloss	Semi-gloss	
Thinner	None used	
Coverage	Wood and Concrete 1,1 kg/m ² (1 mm thickness) ka 1 kg = 1–3 m ² . Steel 1 kg = 2–5 m ²	
Fillers	Washed quartz sand or rubber granules can be mixed into/onto TKR surface	
Crack Bridging Ability	Gypsum board without reinforcement: film thickness 0.35 mm = 1.9 mm crack; 0.45 mm = 7.1 mm crack Concrete without reinforcement: EN 1062-7, Class 3: ≥1.5 mm	
Shrinkage	None	
Moisture Resistance	Forms a watertight film	
UV Resistance	Direct sunlight may alter colour	
Flexibility	+21°C, 70–400 %, adjustable	
Electrical Conductivity	Non-conductive, acts as an electrical insulator	
Static Properties	Anti-static	

Tests

- VTT Research Report No. TEX 9910.
- Determination of tensile strength and corresponding elongation.
- Resistance, water absorption, water vapor permeability.
- VTT Research Report No. TEX 978. Tensile test for adhesion evaluation.
- VTT Standard SFS-EN 1253-2/9 1.2. Test for waterproofing of the connection between floor drain and floor coating.
- Study on hazardous substance permeability, Vahanen 2015.
- Study on hydrocarbon permeability, Vahanen 2020.
- Measurement of hydrocarbon permeability, Vahanen 2021.
- Waterproofing Certificate No. VTT-C-4748-09.
- VTT study on ammonia permeability of floor coating, VTT-S-02095-16.
- Radon gas permeability study, RISE Research Institute of Sweden AB.
- MDI measurement study, Finnish Institute of Occupational Health.
- Indoor Air Comfort Gold, Eurofins Product Testing A/S.
- Tampere University of Technology: salt spray tests, compressive strength.
- M1 and EC1+ building material emission classification tests.



Occupational Safety	Ready-to-use product must not contact skin (it adheres strongly). Professional use of coatings requires proper training for products containing over 0.1% monomeric diisocyanates.
Safety Data Sheet	Delivered with the first order or available at www.tkr.fi/extranet
Shelf Life	Polymer part: 24 months from production date if stored correctly Hardener: 6 months from production date if stored correctly