

UFlex® TAP Roller-Applied Thin-Layer Polyurethane Flooring System **0.18mm**



UQESH®



01 Description

The UFlex® TAP system is a bio-based thin-layer flooring system developed for easy roller application directly onto prepared concrete. It strengthens the concrete surface, prevents dusting, and creates a protective finish. The system provides property owners and facility managers with a fast and cost-effective way to upgrade various areas, such as ancillary spaces, technical rooms, storage areas, and balconies.

02 Uses

- ☐ Utility areas
- ☐ Technical rooms / Plant rooms
- ☐ Storage areas
- ☐ Balconies



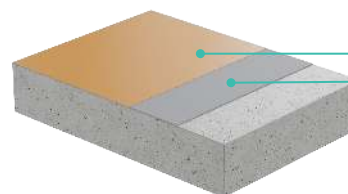
03 Product Characteristics

- Waterborne and Odorless
- Excellent chemical resistance and UV resistance
- R9-R10 anti-slip rating
- Suitable for environments ranging from -20°C to 60°C and for short-term high-temperature steam flushing

04 System Composition Thickness: 0.18mm

System component	Product	Recommended dosage (kg/m ²)
		0.18mm
Primer	UFlex® TAP 750/TAP 750W*	0.18
Topcoat	UFlex® TAP 750/TAP 750W*	0.12

* -W denotes winter grade version



Schematic diagram

Product Specifications

The product is supplied in full units as A+B+C+D packs.

Product	Total weight per set (kg/set)	Part A (kg/bag)	Part B (kg/bag)	Part C (kg/bag)	Part D (kg/bag)	Recommended dosage
TAP 750/TAP 750W*	8.5	2	3	3	0.5	0.1 - 0.14 kg/m ² /0.06-0.08mm

System Technical Parameters

Item	Technical index	Reference standard
Pencil hardness	5H	ISO 15184-2020
Dry coefficient of friction	≥ 0.6	ASTM C 1028 07
Anti-slip grade	R9-R10	DIN 51130
Volatile organic compounds (VOC) g/L	≤ 10	ISO 4624-2016
Chemical resistance	Resistant to a variety of chemicals. For specific resistance, consult UQESH Technical Department.	
Fire resistance	Bfl-S1	EN 13501-1

Application Conditions

Substrate Requirements

Substrate temperature range	10°C - 30°C
Substrate relative humidity (RH)	≤ 93%
Ambient relative humidity range (RH)	≤ 80%
Concrete substrate compressive strength	≥ 25MPa
Concrete tensile strength	≥ 1.5MPa

- ▶ When substrate surface temperatures range from 5–10°C, UFlex® TAP 750W (winter grade) shall be used. The standard grade is not recommended under these conditions.
- ▶ Application is not recommended when ambient relative humidity exceeds 80%.

Surface Preparation

- ▶ Surface preparation shall comply with the following: treat the surface with a concrete grinder or light shot blasting (Note: shot blasting may leave residual marks not fully covered by subsequent coatings). Completely remove all cementitious laitance to expose a sound substrate, ensuring the surface is dry, dust-free and properly textured.
- ▶ Use hand-held equipment for hard-to-reach areas (e.g., wall bases, corners). Repair damaged or uneven areas with **IF/PF** mortar (consult UQESH in advance for alternative materials) or conduct mechanical grinding to ensure a smooth, coating-suitable surface.
- ▶ Properly cut anchoring grooves in the application area; mandatory along all perimeter edges and around drains/outlets. (Refer to the System Installation Manual for detailed procedures.)

Application Instructions

Mixing

All pack components are pre-measured for optimum performance. Do not split packs. If proportioning is required, measure strictly by weight using calibrated digital scales.

NO.	Step	Details
①	Pre-Mix Main Agent	Shake Part A to disperse sediment, then pour it into a mixing bucket.
②	Add Color Paste	Add Part D into the mixing bucket.
③	Add Curing Agent	Add Part B into the mixing bucket.
④	Mix Liquid Components	Mix quickly for 10 seconds until the mixture is uniform.
⑤	Add Aggregates	With the mixer is running, add Part C and continue mixing for 30 seconds until the slurry is smooth and lump-free.
⑥	Mixing Time	Complete mixing in 40–90 seconds . The mixture must be used immediately.
⑦	Spreading	Pour the mixture immediately and spread using a flat trowel.

*Adjust times based on temperature if needed.

Pot Life

25°C	≤10 minutes
15°C	15-20 minutes

Application Method

Apply the mixed material evenly to the substrate using a flat trowel, then roll with a specialty short-haired roller for flooring to ensure the surface appearance and texture are uniform and consistent. It is recommended to use a combination of long and short rollers during application: first, use the short roller to evenly spread the coating horizontally, and then use the long roller to lightly roll vertically to eliminate roller marks and achieve the best application results. Complete application within the pot life to ensure optimum bonding and surface finish. For detailed application procedures, refer to the system installation manual.

Curing Times (at 25°C)

Curing time	Opening for
16 hours	Foot traffic
36 hours	Light vehicular / equipment traffic
72 hours	Heavy traffic and chemical exposure

* Times are estimates and may vary depending on environmental and substrate conditions.

Special Notes

- ▶ Final floor flatness is dependent on the condition and flatness of the existing substrate. Where specific flatness tolerances are required, a project-specific installation plan shall be prepared in advance.
- ▶ The polyurethane flooring system is not inherently prone to cracking, cracking may occur due to substrate movement, including thermal expansion and contraction.

Transportation & Storage

- ▶ Store in original, unopened packaging in a dry, cool, and well-ventilated area at 5–35°C, away from heat sources and open flames.
- ▶ During transportation, ensure the materials are securely stacked and the vehicle is dry and enclosed. Protect from moisture, frost, freezing, direct sunlight, and rain. Components A and B must be protected from frost at all times.

Shelf Life

(when stored in original, unopened packaging under recommended storage conditions)

Product	Part A	Part B	Part C	Part D
TAP 750	18 months	12 months	12 months	18 months
TAP 750W	18 months	6 months	12 months	18 months

Months refer to the period calculated from the date of manufacture.

Environment, Health & Safety

- ▶ For detailed health and safety information relating to UFlex® TAP Roller-Applied Thin-Layer Polyurethane Flooring System, refer to the relevant Material Safety Data Sheet (MSDS).
- ▶ The following general precautions apply to all UQESH products:
 - During transportation, storage, and application, avoid contact with eyes, mouth, and foodstuffs.
 - In the event of eye contact, rinse immediately with plenty of clean water and seek medical attention.

Statement

December 2025

UQESH® hereby declares that it is confident that the information involved herein is true and accurate as of the date of publication. UQESH makes no express or implied warranties regarding the contents of this product manual. We reserve the right to revise this manual at any time without prior notice. Please contact UQESH® to obtain the latest version of this manual.

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