

## UQESH® HF Solvent-free Super wear-resistant polyurethane Overlaying coating

Thin-coated type Polyurethane coating

Excellent weather resistance, impact resistance, super wear-resistant polyurethane floor coating

### Overviews

UQESH® HF is a protective floor surface material that can be applied to the existing Uqesh coating (sanded) : suitable for dry environments.

The compactness and environmental friendliness of the material provide a micro-textured sand surface or a flat, smooth surface for factory workshops, shopping malls, garages, and any industry that requires weatherproof floors; Anti-dust, anti-oil, anti-chemical corrosion, anti-abrasion than epoxy floor anti-scratch, especially can reduce tire noise, and will not leave any black marks.

### Performance data

1. Low viscosity, Excellent substrate penetration, Very low odour-VOC
2. Excellent binder for mortars, Fast to cure.
3. High hardness, scratch resistance, good adhesion, cost-effective.
4. Good Chemical Resistance.
5. Resistant to yellowing, hard to change color.

### Typical performance parameters

No.	Item	Specification	Reference standard
1	Intermediate state	No lumps after stirring evenly	range estimation
3	Pencil hardness H ≥	≥4H	ISO 15184:2012
4	Adhesion force, degree	≤1degree	ISO 2409:1992
5	Abrasive resistance (CS 17 750g/500r)/g ≤	≤0.030g	ISO 7784-2:1997
7	Slip resistance (Dry friction coefficient)≥	≥0.50	ISO 13006:1998
8	Accelerated weathering test under artificial climate, 1000h	No blistering, Non-flaking, Non-dehiscence, Pulverization≤1degree, Discoloration≤2degree	ISO 11341:1994

### Product packaging and ratio

UQESH® HF 6.0kg/set, contain: PART A 2.83kg/bag, PART B 0.42kg/jars, PART C 2.13kg/bag, PART D 0.62kg/bag。A: B: C: D=2.83:0.42:2.13:0.62, Mix and use according to the whole set of ex-factory packing specification.

### Product color

UQESH® HF Can provide variety of similar colors according to RAL. Please contact the UQESH Technology Department for specific color determination.

UQESH flooring systems have been identified to provide the best physical and chemical properties.

### Technical specification

UQESH New Material Technology (Shanghai) Co., Ltd. Tel : 021-52212265 Website :  
www.uqesh.jp

UQESH® HF coating shall be constructed according to the manufacturer's instructions ,  
Manufacturer: UQESH New Material Technology (Shanghai) Co., Ltd.

**Base quality**

The concrete base should be dry, and the test moisture content should be less than 8%, and the minimum tensile strength is 2MPa.

Please refer to "UQESH Industrial Flooring Design and Handling Specifications"

**Spreading rate**

UQESH® HF 0.10-0.12kg/m<sup>2</sup> (Overlaying surface)

**Curing**

The UQESH HF floor is usually ready for use within 48 hours. If there is a heavy object, moving friction of the machine, it is better to cover the surface of the floor with a layer of protective material (such as plastic/paper) by the user now, otherwise the floor will be damaged, causes stains, scratches, etc. to be difficult to remove. If it is not needed immediately, it is recommended that it be put into use after 168 hours of maintenance in a standard environment.

**Storage life**

Should be sealed storage at 5 ~ 35°C in a dry, cool, well-ventilated environment, to avoid high temperature and fire; transport materials to keep stable, ensure that the car environment dry, closed, strictly damp-proof, frost-proof, sun-proof and rain-proof..

PART A: Original sealed packaging, in accordance with the standard storage conditions, from the date of production shelf life of 180 days;

PART B、C and D: Original sealed packaging, in accordance with the standard storage conditions, from the date of production shelf life of 360 days.

**Execution conditions**

For the best surface effect of the material, the temperature of the base and the air should be between 20 and 24°C and the relative humidity should be 50% . At the same time, UQESH HF maintenance beyond a certain temperature, humidity will affect the surface effect, good construction conditions and environment easy to make good surface effect. For specific construction requirements, please refer to the construction process of UQESH® HF.

**Health and safety**

For all safety and health issues with UQESH® HF, please refer to the MSDS for this product.

The following general rules apply to all products of UQESH:

As with all chemicals, contact with eyes, mouth, skin, and food products is strictly prohibited during transportation, storage, and construction (it may be contaminated with water vapor until fully cured and dried). In case of contact with eyes or skin, treat immediately. If swallowed, seek medical advice immediately. Keep this product out of the reach of children and animals. Do not place it at will. Safety sign is required.

**Attention**

Work in a ventilated environment to avoid inhaling its odor. Wear protective masks during construction, such as to prevent dust raising and aspiration when mixing the materials. This product may cause eye and skin irritation, so please wear safety gloves and goggles when using. Do not smoke during construction or in storage areas, and do not approach open fires.

**Statement**

The information provided in this data sheet is based solely on the knowledge gained in our laboratories and practices. However, due to the limitations of our knowledge, and the use of

products is usually out of our control, we only guarantee the quality of products. We reserve the right to amend the specification at any time without prior notice. Please contact UQESH for the latest version of this specification.