

**Product 02334640** Hybrid spray coating, 2-comp., highly elastic, flame retardant, mixing ratio 1:1

## 1 General Data

### Fields of application

FLOORFINDER **HYBRID 34/64 FL** is used as spray applied, crack-bridging waterproofing coating for a variety of applications in the construction industry.

Applications include not directly used areas as flat roofs (up to 20°), subterranean concrete structures, tunnel portals, terrasses with additional protection layer or other applications.

The spray application and the fast-curing properties allow vertical and over-head application.

### Product description

FLOORFINDER **HYBRID 34/64 FL** is a highly elastic, solvent free, two component hybrid spray coating with additional flame-retardant properties.

The product has excellent mechanical properties in a temperature range from -40 °C to +80 °C (short-term stress). The elasticity of FLOORFINDER **HYBRID 34/64 FL** guarantees the crack-bridging and waterproofing properties. The material is spray applied and cures almost without shrinkage. It can be applied up to several mm thick in a multi pass application.

Coatings based on aromatic Polyurethane and Hybrid are not weather and colour stable and will yellow when exposed to UV light. We recommend the application of a weather resistant, UV and colour stable top coat or other protection layers for application in exposed areas.

### FLOORFINDER Systems

FLOORFINDER **HYBRID 34/64 FL** is the crack-bridging waterproofing coating for the FLOORFINDER system:  
FLOORFINDER **HYBRID roof**

### Technical support

For system build up possibilities and detailed information relating to the laying of FLOORFINDER products, please contact Floorfinder Asia Sdn Bhd directly.

Tel: +603 3290 7644

e-mail: [info@floorfinderasia.com](mailto:info@floorfinderasia.com)

### (A) Technical Data Sheet

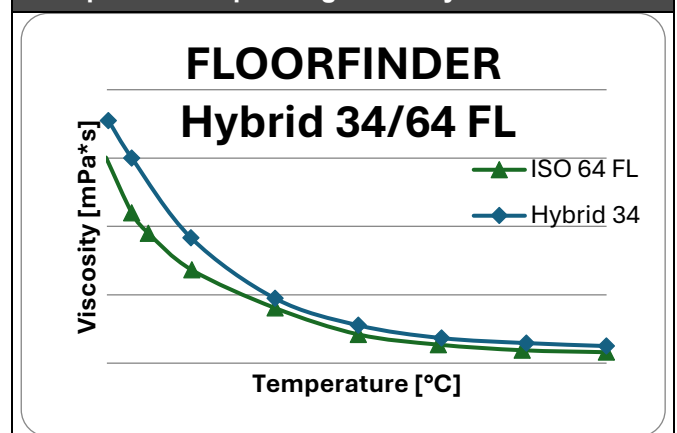
Components	FLOORFINDER Hybrid-34FL	FLOORFINDER ISO-64FL
1. Density (23°C)	1,06 g/cm <sup>3</sup>	1,11g/cm <sup>3</sup>
2. Viscosity (23°C)*	approx. 1500 mPas	approx. 1100 mPas
3. Packaging size	205 kg (drum, blue)	215 kg (drum, red)
4. Colour	grey	colourless
5. Shelf life (20°C)	6 months in closed original container	
6. Storage	Dry at 10–30°C, avoid direct sunlight	

### (B) Technical Data

#### Cured material

1. Tensile strength (DIN EN 196/ ASTM C109)	> 4 N/mm <sup>2</sup>
2. Elongation at break (DIN 53504)	> 300 %
3. Hardness Shore-A- (DIN EN ISO 868)	A 84 (7d / 23°C)

### \*Temperature-depending viscosity curve



### Manufacturer:

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## 2 Application Method

Please refer also to our general application guideline.

### Substrate Preparation

FLOORFINDER **HYBRID 34/64 FL** should only be applied to suitably prepared substrates.

The substrate must be load bearing, clean and free of dust and loose particles. All traces of contaminants such as oils, fats, greases, paint residues, chemicals, algae and lantance should be removed.

FLOORFINDER **HYBRID 34/64 FL** can be applied on concrete, asphalt, bitumen felts, steel, PVC, wood, aluminium and old FLOORFINDER spray coatings. Depending on the substrate, special pre-treatment and primer must be applied. See FLOORFINDER primer matrix for spray coatings. Provision must be made to anchor the coating at termination.

The surrounding areas should be protected from overspray with paper or foil, especially in windy conditions.

### Application

The Hybrid component FLOORFINDER HYBRID-34FL and the isocyanate component FLOORFINDER ISO-64FL are supplied in separate drums.

The pigmented FLOORFINDER HYBRID-34FL component should be stirred prior to use to re-distribute the pigments. The material can then be taken out of the delivered container.

FLOORFINDER **HYBRID 34/64 FL** is applied using a 1 : 1 ratio, high pressure spray machine capable of producing 160 – 200 bar at the spray tip at a temperature of 75 – 80 °C. The FLOORFINDER Hybrid-34FL and the FLOORFINDER ISO-64FL component should be heated to min. 75°C.

Processing with high-pressure systems with static mixer-spray head is also possible. For low pressure machines pretests are necessary.

FLOORFINDER **HYBRID 34/64 FL** should be applied wet in wet in a multi-pass application to the desired thickness. The recommended minimum film thickness is 2 mm. If necessary, the layer thickness can be applied > 5 mm in one operation.

For cleaning of tools and other impurities use FLOORFINDER SO-X12 tool cleaner. For cleaning of the spray equipment, the notes of the manufacturer must be observed.

### (C) Technical Data

#### Liquid mixture (A+B)

1.	Mixing ratio A : B (23°C)	1 : 1 by volume
2.	Working time	only with machine (sprayed) 10 – 15 seconds
3.	Application temperature (substrate and ambient air)	8–50°C (min. 3K above dew-point)
4.	Processing temperature* (Material) both components	High pressure machine: a) with static mixer: ca. 65 – 75°C  b) with impingement mixer ca. 75 – 80°C
5.	Machine – spray pressure*  e.g. 2-K spray equipment:  e. g. GRACO Reactor H-XP2	High pressure machine  with static mixer: ca. 120 – 180 bar with impingement mixer: ca. 160-200 bar
6.	Permissible rel. humidity	max. 90%
7.	Material consumption	1100 g/m <sup>2</sup> per mm thickness
8.	Dry to touch	after 20 sec.
9.	Following layer	within 2 hours

\* In order to ensure a homogeneous mixture of the two components, tests with the respective systems should be done if necessary. The above-mentioned values are approximate and may differ from the processing parameters actually required.

For optimal results and quality of the coating the maintenance and correct functioning of the spray machine is essential and has to be done carefully.

### Over coating

If applying several layers, it is possible to apply the next layer within 2 hours. After longer intervals, use FLOORFINDER PU-P255 as a primer and grind the FLOORFINDER **HYBRID** layer, if necessary.

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### 3 Further information

#### CE-Mark



##### **CE-Mark according to EN 1504-2**

Details see CE-conformity mark and declaration of performance.

##### **CE-Mark according to EN 13813**

EN 13813: 2003-01, Screed material and floor screeds - Screed materials - Properties and requirements is the basis for requirements for floor screeds used in indoor flooring constructions. Resin coatings and sealer are also subject to this norm.

Details see CE-conformity mark and conformity declaration.

#### **Decopaint-Guidelines (EU 2004/42/EG)**

The maximum allowable VOC content for Product category IIA j Type Lb in the ready-to-use state is stage II (from 2010) < 500 g/l VOC.

In the ready-to-use state this product contains less than 500 g/l VOC.

#### **Warnings and precautions**

Information relating to the safe handling of this product can be found in the Material Safety Data Sheet. Local regulations concerning the safe handling of amine and isocyanate resin-based coating materials must be observed.

Suitable protective clothing including suitable respiratory and eye protection must be worn.

#### **Disclaimer**

All information in this technical data sheet is based on our current knowledge and experience. This does not release the applicator from performing their own tests as many application factors, beyond our control, affect the application of our product. No guarantee of characteristics or suitability for a special purpose can be derived from this information. All present data, descriptions, drawings, photos, ratios, weights etc. are subject to change without prior notice and do not represent contracted characteristics of the product.

Due to different materials, sub-bases and working conditions, no guarantee of an application result or any liability claims can be derived from these details or from an unwritten technical advice except for liability claims based on:

-damage to life, body or health resulting from a negligent violation of obligations or a deliberate or negligent violation of obligation of a legal representative or assistant and  
-if we are charged with intention or gross negligence.

The user has to test the products for their intended use. The user is responsible for following existing laws and orders and for observing third party trademark rights.

As all Floorfinder data sheets are updated on a regular basis it is the users responsibility to obtain the most recent issue (see [www.floorfinderasia.com](http://www.floorfinderasia.com)).

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