



# IPA PU Flüssigfolie

## Crackbridging liquid PU Flüssigfolie for waterproof concretecoating

### Product-description:

IPA PU-Flüssigfolie is a high-elastic, tar-free 2-Component-Polyurethane-coating-material. IPA PU Flüssigfolie viscous is formulated for vertical applications.

Solventfree according to lbh-recommendation

### Application-areas:

For balcony, parking- and bridge-structures to make high-elastic, waterproof, passable and nonskid coatings with feeded aggregate on concrete or cement-substrates, with existing cracks or where crack-formation is to be expected.

### System-characteristics:

- High crackbridging abilities up to  $-20^{\circ}\text{C}$
- Abrasion- and chemical-resistant
- Weather resisting, protects from water- and chloride intrusion
- Durable and economic
- High layer-thickness with low material-consumption.
- Recoating after 2hrs. possible because of fast curing

### Product-data.

<b>Certificates:</b>	EMPA (Switzerland)
<b>Colours:</b>	Sand-yellow, clear grey.
<b>Shelf-life:</b>	In original-unopened containers 1 year when stored in cool, dry areas.
<b>Mixing-Ratio:</b>	IPA PU-Flüssigfolie
<b>VISCOUS:</b>	89 parts by weight - Comp. I 11 parts by weight - Comp. II
<b>Density:</b>	1,015kg/dm <sup>3</sup>
<b>Curing-time</b>	1-2 hours
<b>Next coating (20°C)</b>	from 2 hours on
<b>Consumption according to system</b>	0,7-2,0kg/m <sup>2</sup>
<b>Adhesion on pimer coating</b>	> 1,5N/mm <sup>2</sup>
<b>Shore Å hardness</b>	68-78
<b>Tensile Strength (20°C)</b>	after 7d > 15N/mm <sup>2</sup>
<b>Tear Strength (20°C)</b>	7d > 800%
<b>Dynamic Crack bridging (-20°C) maximum.</b>	0,8mm
<b>Packaging:</b>	
<b>IPA PU Flüssigfolie</b>	20 kg net.

### Resistance:

#### Chemically:

The membrane is permanently waterproof against watery chloride solutions, thinned detergent-solutions, soda-lye 2%, brake fluids, just as organic lubricates - and fuels. The Top-coat improves the resistance additionally.

#### Thermal:

Dry heat for a short time until  $+ 80^{\circ}\text{C}$ .

### Processing:

#### Mixing advice:

Stir up thoroughly Comp. I and then pour Comp. II completely in Comp. I. With electric stirrer, (300-400 rpMin), or adequate mixing equipment, mix intensively.

The time of mixing amounts to at least 3 minutes. and is then finished, when a homogeneous mixture is obtained. Mixed material is to be poured into a clean vessel, and has to be mixed again shortly .

### Horizontal surfaces:

The mixed material is poured on the surface, and must be broadcasted with a teeth-trowel . Immediately backroll to relieve trapped air-bubbles. After waiting approximately. 5-10 minutes broadcast the fresh surface continuously with dry natural quartz-sand first cautiously and then in excess, within maximum. 30 minutes.

**With direct sun-insulation or temperatures > 20°C immediately begin with broadcasting aggregates.**

### Hint:

The broadcasting of aggregate is always to be controlled, to avoid a non uniform appearance of the surface because of lack of aggregate. Excess of liquid material at the surface gives a insufficient view of the coating.

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### Vertical surfaces

approximately. Apply 1,3 kg/m<sup>2</sup> IPA PU Flüssigfolie viscous and broadcast 1 -2 kg/m<sup>2</sup> fine quartz-sands 0,1-0,3 mm .

### Top-sealer or Top coat:

The top sealing with IPAPUR VS/Le as well as the top-coating with IPAPUR GB are applied with notched squeegee or with a role. ....A slightly higher material-consumption is necessary by this method, however in favour of a better appearance and surface-performance.

### Priming on surfaces exposed to weathering:

In order to get an optimal pore-closure, and to avoid air entrainment into the basic-layer, we

recommend to prime 2 times on weathered-surfaces with IPAPOX B/DB.

The first priming will be made by brush and covered with 0,8-1 kg/m<sup>2</sup> quartz-sand ( 0,4-0,7 mm) evenly . Loos sand-grains must be removed after curing of the coating . Afterwards apply the second priming coat by brush or role and cover with aggregate.

### Work with falling temperatures in principle!

#### Air - and substrate-temperatures:

Minimally + 10°C, at least however + 3°C over the point of condensation,

At most + 25°C.

Relative humidity maximum. 80%

### Processing-times:

	+10°C	+20°C	+ 25°C
IPA PU FLÜSSIGFOLIE IPA PU FLÜSSIGFOLIE VISCOUS	approximately. 40 min.'s.	approximately. 15-20 min.'s.	approximately. 10. Min.

Waiting time between the operations:		+ 10°C	+20°C	+ 30 °CS
IPAPOX B/DB	min. maximum.	1 day 3 days	12 h. 2 days	6 h, 1 day,
IPA PU FLÜSSIGFOLIE	min.	From 4 hours	From 2 hours	From 2 hours

**Respect:** If the waiting time between prime coat and top coat are not respected, a reduced adhesion between the layers can occur.

### Curing times:

Application of the Coating System	+10°C	+20°C	+ 30°C
Pedestrian use	Approx.. 6 hrs.	Approx.. 3 hrs	2 hrs
Vehicular use after	7 days	7 days	7 days

Cleaning of the equipment. IPA Aktivreiniger

### Precautions:

Component II of IPA PU FLÜSSIGFOLIE / IPA PU FLÜSSIGFOLIE viscous is corrosive!

Observe all protective measures prescribed by any competent social insurance association against occupational hazards in the

chemical industry. Use gloves and protective goggles. Avoid any contact between the product and your skin.

For improved protection,

apply cream to your hands. Use a good deal of water to wash away any splashes of material reaching your skin or an eye; after-

wards, immediately consult a physician.

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IPA Bauchemische Produkte GmbH Riedhof 5 – 82544 Egling – Tel. 08171-9990600 – Fax 08171-99906020 –

E-mail: [info@IPA.de](mailto:info@IPA.de) Internet: [www.ipa.de](http://www.ipa.de) oder [www.ipanex.de](http://www.ipanex.de)