

# MFC Ekopox 661

## Penetration wiper

### PRODUCT DESCRIPTION

A solution-free, non-pigmented low-viscose two-component system on the basis of epoxy resin.

### USE

It is used as penetration resin for cement, concrete and self-levelling bases with the possibility of coating or levelling. For levelling of bases It is also used as a binder for the production of levelling layers for rough bases, undercoats or levelling layers.

### PROPERTIES OF THE PRODUCT

A low viscose system with high penetration ability. After hardening it is resistant to chemical and mechanical loading, soluble salt, mineral oils, lubricants, fuel, diluted acids, etc.

#### Mixing ratio of composition

MFC Ekopox 661	Component A	Component B
parts	100	20

#### Technical parameters of the components

Viscosity for 23 °C	500 – 700 mPa.s
Time of processability at při 23 °C	20 min.
Temperature during hardening	min. 10 °C / max. 30 °C
Full hardening at 23 °C	7 days

#### Technical parameters of hardened flooring

Adhesion to the base. Surface	min. 2,5 MPa
hardness at 23 °C after 24 hours	150 – 170 MPa

#### Waiting time between working procedures

a) in the case of consequent application of products without		
+10 °C	+20 °C	+30 °C
min. 24 hours	min. 8 hours	min. 5 hours
max. 4 days	max. 2 days	max. 1 day
b) při následné aplikaci produktů obsahující rozpouštědla		
+10 °C	+20 °C	+30 °C
min. 36 hours	min. 24 hours	min. 12 hours
max. 6 days	max. 4 days	max. 2 days

### PREPARATION OF BASE

The hardened penetration reports optimal utility properties in the case of application on the bases with stated parameters under normal conditions (50% relative moisture of air, temperature of the base 15 – 25 °C – min. 3 ° above condensation point)

#### Required minimum parameters on the base:

Resistance to pressure	for driving	min. 21,5 MPa
	for walking	min. 14,7 MPa
Moisture	max. 4 hm%	
Gripping	min. 1,5 MPa	

The base must be dry, without cracks, without cement scum, matured minimally 28 days and must be insulated against influences of lower water of with cellar. The surface must be blasted; the maximum removing of scum and suction is performed if the base is self-levelling substance. Cracks

in the base can be treated by means of the substance MFC Ekopox 670 or possibly binding joints.

If the concrete surface of the base is damaged (crushing, corrosion, cement milk, etc.) or is dirty from diesel, oil, asphalt, etc., it is necessary to perform grinding, blasting by sand or steel balls, blasting by compressed water or other well established or recommended methods of preparation of the base.

### MIXING

Both components A : B are mixed in the respective ratio. The mixing of both components is performed slowly by rotary mixer (about 300 rpm). It is necessary to perfectly mix the materials also by the sides where there are not mixed components. The mixing is performed as long as the mixture is homogenous (minimally 3 min.). The mixed mixture is poured into the clean vessel and is perfectly mixed. The temperature of both elements must be within the range +15 °C - +25 °C.

For smoothing of roughness silica sand 0.5 – 0.8 mm is added. Silica sand and other fillers are added into a pre-mixed binder while performing permanent mixing. It is necessary to take care to perfectly mix to eliminate lumps.

### PENETRATION

The sense of penetration is mainly to fix the area of the concrete and to suppress air from the surface of the base.

Preparation of the base – see preparation of the base

Preparation of resin – see mixing

Expansion of the penetration is mostly performed by asphalt brushes or rollers or steel smoothers. The consumption is 0.3 – 0.7 kg/m<sup>2</sup> according to the absorption capacity of the surface.

Penetration is performed into a non-absorbing base; the creation of a continuous varnishing layer of the surface of the base is not permitted. In the case of its creation, it is necessary to immediately perform its filling with dry silica sand with the fraction 0.5 – 0.8 mm.

The consumption is approximately 1 - 3 kg/m<sup>2</sup>. The excessive sand is wiped away before the following working procedure or exhausted and the base is possibly grinded.

### LEVELLING LAYER

Preparation of the base – see preparation of resin – see mixing

Fine levelling layer (so-called scraping) filled with silica sand fraction 0.1 – 0.3 in the ratio 1 : 0.5 weight depending on the temperature is applied by rubber wiper or smoother for the levelling of roughness with a thickness of about 1 mm. The consumption of the mixture is about 0.5 – 1.5 kg/m<sup>2</sup>.

### STORAGE

It is stored in closed packages, in roofed dry warehouses at a temperature of 15-30 °C.

### WARRANTY

The warranty period is 12 months from the date of production.

### ATTENTION

Detailed data concerning the safe handling and protection of health is contained in the safety sheet.

