# Foam concrete FC 300 - 400 kg/m<sup>3</sup> from mixing plant: for floors +85 m hight pumping



info@iwtech.sk



January 2018

# Production plant

- **Mixing plant:** same as for concrete production, before production of cement grout mixing center must be cleaned from residues of the previous concrete production
- **Truck Mixer:** the same as for concrete transport, before production of cement grout mixing drum must be cleaned from residues of the previous concrete production
- **Generators:** GFM 8 mobile for transport in public roads, for industrial production FC, see DS 101
- **Pump:** Screw type, for instance Estrich Boy FHS 200



### FC 350: in the concrete plant



filling of the drum by technical foam and cement grout, homogenization of fresh mixture during the transport, screw or piston pump on site

### ivvtech

# FC 350: pouring and levelling of FC







# FC 300 - 400: also for high buildings



**Designation**, location: Panorama, Bratislava, Slovensko Type, floor area, height: 2 towers, appartments  $\approx$  36 000 m<sup>2</sup>, 110 m - 33 floors **Realised foam concrete thickness:** 55 – 65 mm Foam concrete production/ distance from the construction: mixing plant CEMEX CZ, Břeclav / 85 km **Finished floors delivery:** december 2014 – july 2015

### FC 350 for +85m: used components



#### Mixing plant:

Mixing plant CEMEX, Břeclav (CZ) Truck Mixer, CEMEX CZ generator of technical foam GFM 8

#### **Components:**

127 kg
126 kg
144 ltr
770 ltr

#### **Projected density of the foam concrete:**

fresh	/	in stable humidity	/	dried kg/m <sup>3</sup> :
461	/	365	/	332

#### **Technical foam:**

# foaming concentrate volumetric volume

FC1 80 g/ltr

# FC 350 for +85m: transport & pumping in height



Mixing plant Břeclav (CZ) → site Bratislava (SK): 85 km ≈ 1 h 35 min

Pump: Estrich Boy FHS 200/3

Hoses lenght/ transport height / floor: 175 m / 85,1 m / 27th floor

**Internal hose diameter:** 50 mm

Volumetric loss of foam concrete in +85,1 m: <5~%

**Pumping duration 7 m<sup>3</sup> to +85,1 m:** 35 min

## FC 350 for +85m: density in heights



**Destination place / height:** at the end of transport hose / +85,1 m

#### **Comparing of densities of foam concrete:**

projectedmeasuredfreshfresh461470 kg/m³ (8 samples averages)

Measuring date: 18.6.2015

### Measuring provided by:

iwtech s.r.o.

"foam concrete as concrete"

# Thank you for your attention

ivvtech

iwtech s.r.o. K výstavisku 15 912 50 Trenčín Slovakia further information available at: <u>info@iwtech.sk</u> +421 904 179296



January 2018