

WIDOPERL Polymer lightweight screed



Basis

Foamed, recycled expanded glass (WIDOPERL) and 1-component PU binder (Also available as a solvent-free version)

Grain size

0.25 – 0.50 mm (WIDOPERL)

Consumption

3,9 kg/m² per cm layer thickness (including binding agent)

Bulk density (WIDOPERL without binder)

340 kg/m³ +/- 10%

Thermal conductivity

0.07 W/mK

Curing time outdoors (at + 20°C)

Normally walkable after 8.0 hours, with a pressure equalisation layer after 4.0 hours

Working time

30 minutes at +20°C

Packaging unit

WIDOPERL 60 l per bag (20,4kg)
Binder (1-component and solvent-free)
1 kg or 20 kg

Minimum working temperature

+ 5°C

Maximum working temperature

+30°C

Cleaning in fresh state

WIDOPAN-Cleaner

Storage

WIDOPERL has unlimited shelf life if kept dry. If container is kept closed and storage temperature held constantly below + 25°C, the binder may be used for up to 6 months.

The WIDOPERL Polymer lightweight screed is a quick-setting, levelling and equalising compound which quickly becomes walkable, for all irregular and uneven surfaces. Because of its low weight of approx.

340 kg/m³, it may also be used for filling structural components with critical static properties. The lightweight screed can be applied down to zero (grain size).

WIDOPERL Polymer lightweight screed is made of foamed, recycled expanded glass, of grain size 0,25 – 0,50 mm and a binder.

The main areas for outdoor applications are flat roofs, balconies, terraces, walkways, surfaces used by vehicles, etc. Here, major irregularities or zones with conflicting gradients are levelled. WIDOPERL has approx. 3.8 N/mm² compressive strength. Special mixes may be used for lower loadings.

Indoors, uneven surfaces can be levelled and cavities can be filled. The areas filled are pressure-resistant and low in weight, have good thermal insulation and improve impact noise values.

Recommended mixing ratio

For normally and heavily loaded balconies and terraces with additional surface sealing. 20 liters WIDOPERL and 1 kg binder. This mixing ratio has been tested without any additional pressure distribution measures by an independent body.

Complete bags should only be mixed by experienced staff using a Agitator with double agitator or agitator with counter-rotating agitator. It is essential to ensure that the plants are repotted carefully and that the stirring times of at least 2 minutes before and at least 2 minutes after watering are observed.

Processing

The WIDOPERL-granulate is mixed with the 1-component WIDOPERL-Binding agent. The mixture should be stirred for at least 2 minutes, then filled in another bucket and stirred again for at least 2 min. The surface is primed with WIDOPAN-Primer or WIDOPAN-Primer SF for the solvent free version. It is important that the primer does not cure before applying the WIDOPERL since it needs to be applied "wet in wet". First, strips are installed to define the slope. The finished mixture is then pulled off and evened over these strips. Since it is an open pored surface, a thin layer of WIDOCRYL-Filler should be applied to close the pores after the WIDOPERL is cured and before the waterproofing layer is applied.

WIDOPERL Polymer lightweight screed



At higher temperatures, the surfaces should be shaded and only up to 20 liters of the material should be mixed.

Further details, especially regarding hazard statements, security advices and measures in the event of fire can be found in the safety data sheet under sections 2, 4, 5, 6, 7 and 8.

Please also refer to our instructions on priming and our technical information sheets!