TECHFLOOR®

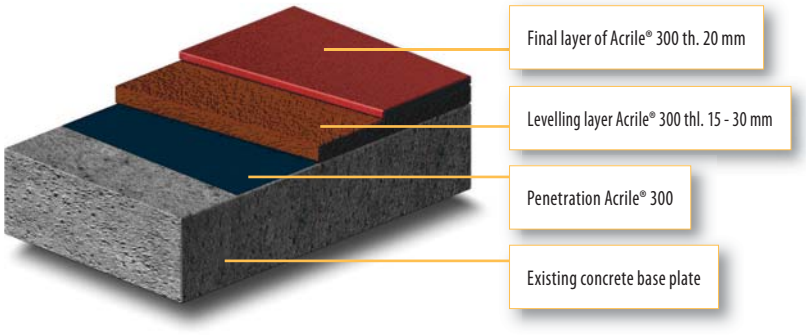
RANGE OF USE:
EXTENSIVE!
THE MOST ECONOMIC AND TECHNICALLY BEST SOLUTION OF REDEVELOPING AS WELL AS PLACING NEW FLOORS.

ACRILE® 300

Acrile® 300 is a special three-component industrial flooring material with above-standard technical parameters, developed for heavy operating conditions. It is suitable especially for redeveloping old bases in premises, which do not conform to the conditions of use and do not show corresponding parameters. It is a machine-processed flooring system in the average thickness of 20 mm.

Material Acrile® 300 was developed based on experience and needs of various industries and types of operation as an ideal flooring system on the basis of acrylic copolymers (without solvents), modified by hydraulic binder.

The range of use of this technology is extensive. Almost all branches of industry, from automotive, electrotechnical and foodstuffs industry to heavy machinery, offer wide use in various technological and material variants. This technology brings practical answers to a number of issues connected with the redevelopment of floors, which are consequently exposed to the heaviest operating conditions.



- MSDZ Promt Brno 780 m²
- Sugar mill Opava 880 m²
- Gallery České Budějovice 3 880 m²
- Garages Bredovský Dvůr Prague 6 740 m²
- Armature plant Vranová Lhota 1 870 m²
- Garages Prague-Vysočany 3 450 m²
- Zora Olomouc 890 m²
- INA Skalica 7 850 m²
- Siemens Frenštát 2 970 m²
- Living park Prague-Trója 700 m²
- Garages České Budějovice 5 565 m²
- Sanitas Říčany – ramp 2 850 m²
- Regata Prague – ramp 2 000 m²
- Hypernova Prague-Jinonice 2 000 m²

Composition

Component A - liquid acrylic resin.
Component B - loose modified mixture of silica sand grading and eventual pigments (according to the colour shade).
Component C -material on the hydraulic binder basis (cement).

Uses

The floor system of **Acrile® 300** technology allows the redevelopment floors with extensive defects. Possibility of placing to absorbent surfaces, old concretes, dusting and non-cohesive surfaces, asphalt concretes, teralites, and also to combinations of various types of existing damaged bases. Usually it is possible to re-profile unevenness of 15 - 50 mm.
During construction of new floor structures this modern technology of concrete reinforcement provides complete top structure of a concrete floor including the floor finish in one technological step with very high productivity (500 to 1 000 m^2 daily).

Use from the point of view of the existing non-functional surface

- bases with cracks, splits, drops, extensive unevenness, damage of seams, construction joints, dilatation cuts, surfaces contaminated by oils, etc.
- redevelopment of floors in relation to changing the nature of manufacture in progress

Use from the point of view of the nature of activity

- engineering and automotive industry with medium to heavy static and dynamic loading
- truck traffic (high-lift, stacking or palletizing trucks - high dynamic and tensile-bend loading)
- traffic of passenger, freight or caterpillar vehicles
- special loading - barrels, bands, cable spools
- impact strength (falling objects)
- rack and stacker storages
- mechanical production and storage facilities
- foodstuffs premises, meat combines, slaughter-houses (outside ramps and exteriors)
- garages (possibility of execution of fillets)
- breweries, distilleries, soft-drinks companies
- chemical industry

Advantages

- high resistance to dynamic loading and effects of fall of heavy burdens
- high resistance to abrasion
- safe surface
- hygienically unexceptionable
- oil-resistant
- water-resistant
- dust-free surface
- absolute flame resistance (flame propagation index 0)
- minimum sensitivity ot climatic effects (may be placed in exterior, e.g. outside storage and loading ramps)
- long service life, if treated suitably

Loading after application

For optimum exterior conditions in the place of installation (T, humidity):

- **Acrile® 300** dry for stepping after 24 hours (depends on the layer thickness)
- full mechanical loading after 72 hours
- full chemical loading of the flooring after 7 days
- may be applied to fresh concrete (after 48 hours)

Colour range

- anthracite
- red
- brown
- grey
- green
- blue

Design of construction and dilatation joints

The design and execution of dilatation units is based upon the existing raster of dilatation joints in the base and on the position of active joints and cracks, or the dilatation units are conducted simultaneously with the concrete plate and **Acrile® 300** while erecting the new floor structure. We recommend using the diamond technology in a raster according to the modular grid of the structure or according to the nature of the structure built. This technology eliminates creation of cracks in the floor surface because of accurate alignment o the dilatation in the concrete plate and the upper synthetic floor **Acrile® 300**.

Surface treatment

- **Acrile® 300** Standard – basic
- **Acrile® 300** with final surface treatment
  a) by water-borne system **Epotec W2**
  b) by epoxy system **Epotec S-FINISH**
- **Acrile® 300** Teraco (decorative)

Certificates

Material Acrile® 300 meets the requirements of Statutory Order No. 163/2002 Coll., which ensures conformity of material properties with the

basic requirements of this law. The material has been examined by certificating and testing authorities. We have at our disposal all tests required by the Czech laws. The material is declared in line with CSN EN 13813 as Polymer-Modified Cement Screed Class CT-C40-F7-B2. The quality of the material is also evidenced by the Certificate issued by the authorized body, which certifies that products introduced to market correspond with the technical specification.

The following documents are available to the material **Acrile® 300**:

- Determination of natural radionuclides by VUSH Brno, a. s.
- Declaration of Conformity issued per § 12 Section 2 of Law No. 22/1997 Coll., and § 5 of Statutory Order No. 163/2002 Coll.,
- Testing Protocol No. 114-005-063 by CSI a.s. Zlin
- Statement on sanitary unobjectionability of products issued by SZU Prague,
- Protocols No. 12680-1/2, 12680-2/2 on testing of fire-technical characteristics issued by CSI a. s. Prague.

Packaging

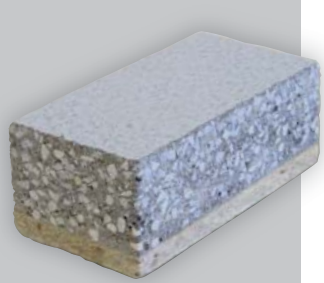
- Component A (liquid) in a barrel of 1 000 l
- Component B - 25 kg or 50 kg
- Component C (binder) - 25 kg or 50 kg

Storage

In original packaging in a dry frost-protected environment (min. 5 °C) for the period of 6 months.

Technical data

Tensile-bend strength acc. to prEN 13892-2	11.8 MPa
Pressure strength acc. to prEN 13892-2	55 MPa
Abrasive quality acc. to prEN 13892-3	max. 9.6 cm^3/50 cm^2
Volume stability CSN 72 2453	0.18 mm/m
Water-tightness in 30 min. CSN 73 2578	0.01 l/m^2
Oil-tightness in 30 min. CSN 73 2578	0.0 l/m^2
Coefficient of slipping CSN 74 4507	
dry surface	$\mu = 0.620$
wet surface	$\mu = 0.648$
Gripping CSN 73 2577	3.9 MPa
Fire resistance CSN 73 0863	A flame-resistant
Flame propagation index CSN 73 0862	$i_s = 0$ mm/min.
Determination of radionuclides	conforming
Minimum application temperature	+7 °C



Contact our dealers !

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