

# YaYa.tec® SynthoFloor 8010

**Epoxy resin - Primer / Sealer / Bonding Bridge  
for dry or slightly wet mineral Substrates (up to 6%)**

## Field of Application

YaYa.tec® SynthoFloor 8010 is designed to be used on mineral substrates (concrete or mortar) which are dry or slightly wet:

- Solvent-free primer for epoxy or polyurethane paints
- Sealer for concrete floors in workshops, underground parkings, factory buildings a.s.o. - anti dust effect - applicable on damp and young "green" concrete surfaces
- Hardener for concrete or plaster surfaces - anti abrasive effect
- Bonding course for paints / coatings, especially for irregularly absorbing substrates
- Bonding resin for resin screeds (filled with quartz sand), key coats and filled primer

**German Technology**

## Properties

YaYa.tec® SynthoFloor 8010 is a specially formulated 2-component epoxy resin with extraordinary properties:

- penetrates very deeply into the capillary system of the substrate (2 - 5 mm acc. to porosity) due to its low viscosity of 700 mPas ± 100 (23°C); density of the mixed product: 1,10
- solvent free - volume solids: ~ 100 % - resistant up to 250 °C (case: hot mastic asphalt)
- transparent (yellowish), yellowing when exposed to direct sunlight (UV rays)
- very high mechanical resistance: 60...90 N/mm<sup>2</sup> (depending on filler ratio) - shore D hardness: >80
- very strong bonding, including on slightly wet substrates - tensile strength >30 N/mm<sup>2</sup>
- applicable to young (green) concrete: residual moisture max. 6 % allowed (determined by CM method)
- water and damp proof when fully cured (caution with pressure damp rising from backsides that are not water-proof: this may produce elevated pressure) - water absorption < 1% (when fully cured)
- resistant (when fully cured) to salt water / saline solutions, sewage, alkalis and diluted acids, mineral oil, lubricants and fuels (incl. aviation fuel), mastic asphalt up to 250 °C
- inert and harmless once cured

## Quality assurance and inspection

### YaYa.tec® SynthoFloor 8010

is produced according to the Regulation (EU) 2023/2006 - GMP Good Manufacturing Practice  
The manufacturer has a quality assurance and inspection plan available for clients.  
Recommendations for qualified test control units are also available.

## Disclaimer

Any information about **YaYa.tec® SynthoFloor 8010** in this Technical Data Sheet (TDS) must be understood as a material description, based upon laboratory test results and practical experience under normal conditions, which CANNOT be applied to specific applications beyond our influence and control. In particular, the recommendations regarding the application and use require the proper storage and treatment of our products. Due to differences in materials, substrates and real site conditions YaYa Materiales SLU does not assume any warranty or liability for application results or fitness for a particular purpose, of any legal relationship whatsoever, neither from this information, nor from any given recommendations, or from any other oral advice. The user of the product must check the product's suitability for the intended application and purpose. YaYa Materiales SLU reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. The most recent issue of the Product Data Sheet has to be considered, please ask always for the current version.

YaYa<sup>®</sup>

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## Substrates

YaYa.tec<sup>®</sup> SynthoFloor 8010 is designed to be used on mineral substrates which are dry or slightly wet as:

- concrete
- floor screed
- plaster
- in some cases: wood

## Surface Preparation & Bonding between Layers

YaYa.tec<sup>®</sup> SynthoFloor 8010 can be applied to surfaces prepared as follows:

All surfaces to be coated should be clean, dry (max. 6% concrete residual moisture, determined by CW method), dust and oil & fat free and free from any other contamination such as old paints.

### Concrete substrates

Concrete substrates must be prepared according to the recommendations of the DAfStb (German Committee for Reinforced Concrete) Guideline SIB (SIB-Rili - Protection and Repair of Concrete Members) respectively the regulations of the ZTV-ING; this means the elimination of any layer or film that might impede the adhesion of the coating, especially cement slurries, with the result that the granulation of the aggregates becomes visible; furthermore, the concrete must be sufficiently absorbent in order to receive the primer. This surface quality is to be achieved by wet sandblasting or any other method enumerated by the SIB-Rili of the DAfStb, for example diamond grinding. The concrete must have a tensile strength of at least 1.5 N/mm<sup>2</sup> after the preparation.

After cleaning the prepared concrete from any grinding or other dust and impurities, the now open porous concrete will be primed with YaYa.tec<sup>®</sup> SynthoFloor 8010 (max. concrete humidity 6 %, measured by the CW method), consumption 400...500 g/m<sup>2</sup>. During the over coating interval that must be strictly observed and is strongly dependent of the ambient temperature, the second hand of the YaYa.tec<sup>®</sup> SynthoFloor 8010 coating is applied, if necessary or desired.

If it is foreseeable that the over coating interval between any subsequent layers cannot be met, then the previous layer must be sanded with oven-dried siliceous sand 0,4...0,8 mm whilst still wet and the surplus sand be removed after drying. In this case two hands of primer are recommendable. If the over coating interval will be involuntarily surpassed, then this previous dry layer has to be grinded completely with grain 80 until rough and matted.

In the case of hand application with brush or roller, it is strongly recommended to sand always between all the layers and to apply 2 hands of the primer.

During the over coating interval that must be strictly observed and is strongly dependent of the ambient temperature, the first and eventually second hand of the YaYa.tec<sup>®</sup> FoodCoating V2.00 coating is applied, if this coating shall be the final finish.

### Floor screed substrates

Same as for concrete substrates

### Plaster substrates

Same as for concrete substrates

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### Application

YaYa.tec® SynthoFloor 8010 is packed in 6 kg or 25 kg kits (component A+B - 2,63 : 1).

#### General application data:

- **YaYa.tec® SynthoFloor 8010** ONLY shall be applied by properly qualified professional applicators in industrial conditions, no domestic or simple workshop conditions - read carefully the Safety Data MSDS !!!
- Max. humidity of the concrete: 6 %
- Air and substrate application temperature: +8 ... 30 °C (min. 3 °C above dew point prior to, during and after the the whole application, until the minimum overcoating time is reached) - the priming and sealing work may only be carried out at constant or falling temperatures; otherwise blistering and consequent leakage can occur.
- Relative air humidity during the application: 75 % (at 8 °C) ... 85 % (>23 °C) (to be measured in the vicinity of the substrate)
- Application time (pot life): approx. 35 min (15 °C) - approx. 30 min. (25 °C)

#### Mixing process:

1. Mix both components A+B with a mixer for resin at about 300-400 rpm (6 kg: 3 min - 25 kg: 5 min.)
2. Put the mixed material into a clean container and mix again for at least 1 minute more
3. When using fillers (e. g. clean, dry, tempered quartz sand), they now can be added whilst stirring constantly use a ratio of 1 resin : 0,8 ... 1,0 quartz sand Ø 0,1 ... 0,3 mm to prepare a key coat or scratch mortar use a ratio of 1 resin : 1,0 ... 2,0 quartz sand Ø 0,1 ... 0,3 mm to prepare a filled primer / resin mortar
4. Temperature of both components during mixing and application: 15...25 °C
5. Solvents: not allowed, especially not water

#### Casting process (read carefully the bonding recommendations between layers on the previous page):

- The ready mixed product will be applied by spraygun, brush or roller (rubber squeegee can be used to spread the unfilled resin on large surfaces, then finish with a paint roller)
- Consumption per hand: 0,4 ... 0,5 kg/m<sup>2</sup> (spraygun more) - wet (WFT) = dry (DFT) (volume solids 100 %)

#### Specifications for the Airless Spraygun (suitable model e.g. Wagner Cobra 40-10):

- Tip size 0,25 ... 0,30 mm (0,010 ... 0,012 ") / opening angle 40 ° / pressure 200 ... 220 bar
- Recommended hose length: 7,50 m - recommended spray hose diameter: 1/4"

#### Curing times:

- Overcoating interval: 8 °C - 16 h ... 36 h / 23 °C - 6 h ... 24 h / 30 °C - 3 h ... 12 h  
if sprinkled with quartz sand, the duration times will increase
- Curing time foot traffic: 8 °C - 24 h / 23 °C - 12 h / 30 °C - 6 h
- Curing time chemical resistance: 8 °C - 5 days / 23 °C - 3 days / 30 °C - 2 days

### Storage and Safety Advices

Storage min. 12 months in a dry, cool and well ventilated place (0 ... 35 °C); containers hermetically sealed.

Classification component A: UN 3082 - Cl. 9 - PG III / Classification component B: UN 2735 - Cl. 8 - PG II  
Comp. A: WARNING Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. Contains epoxy constituents. May produce an allergic reaction.

Comp. B: DANGER Harmful if swallowed or inhaled. Causes severe skin burns and eye damage. May cause respiratory irritation. Harmful to aquatic life with long lasting effects. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Comp. A + B: May cause an allergic skin reaction. Avoid breathing dust/fume/gas/mist/vapours/spray. If exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If Inhaled: Remove person to fresh air and keep comfortable for breathing. Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash it before reuse. Avoid release to the environment. Do not eat, drink or smoke when using this product.

Refer always to the Material Safety Data Sheets MSDS.

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comp. A:



comp. B:

