

STAUF

seit 1828



STAUF WEP 180

Solvent-free 2-component water epoxy resin based primer



Technical Datasheet

Product number	✓ 111600
Special features	<ul style="list-style-type: none">✓ Reinforcement of substrates✓ Deeply penetrating epoxy resin✓ Vapour barrier on substrates containing residual moisture up to 4.0 CM%.✓ Quick drying✓ Easy to apply
Application range	<ul style="list-style-type: none">✓ primer under STAUF PU-, SPU- and SMP-adhesives✓ primer under STAUF levelling compounds sprinkled with sand after first coat before levelling with STAUF levelling compound (with STAUF VDP 160 as a primer)✓ vapour barrier on cement screeds containing residual moisture up to 4.0 CM%.
Suitable subfloors	<ul style="list-style-type: none">✓ mastic asphalt screed✓ concrete C 25 / 30 according to DIN 1045 (non-skid surface)✓ calcium sulphate (flow) floors (no moisture barrier)✓ wooden planks, wood fibre boards✓ chipboards V100 (E1), OSB boards✓ stone, ceramic, terrazzo, tiles✓ unlaminated gypsum fibre boards✓ cement floors✓ cement floors with residual moisture
Product properties	<ul style="list-style-type: none">✓ good adhesion to various materials✓ very economical✓ very low emission✓ suitable for castors swivel chairs according to DIN EN 12529✓ can be diluted with water✓ reduction of the vapour diffusion rate on surfaces with residual moisture
Color	<ul style="list-style-type: none">✓ Hardener: yellowish✓ Resin: colorless
Potlife	✓ approx. 45 minutes

Required quantities per m ²	<ul style="list-style-type: none"> ✓ First coat: approx. 150 - 200 g if applied with a roller (diluted 1:1 with water) ✓ Second or further coats as a vapour barrier: approx. 200 g undiluted if applied with a roller ✓ thin coat application, undiluted, as a bonding agent on non-absorbent surfaces: approx. 100 g/m² if applied with a roller ✓ the quantity required increases if the substrate is highly porous
Drying time	<ul style="list-style-type: none"> ✓ 1. Coat diluted with water (1:1): approx. 2 hours ✓ 2. Coat undiluted or further coats applied as a vapour barrier: at least 5 hours
Additional instructions 1	<ul style="list-style-type: none"> ✓ If levelling layers thicker as 10 mm are to be applied, the coat must be sprinkled with sand.
Room climate at work site	<ul style="list-style-type: none"> ✓ minimum 15 °C, maximum 75% rel. humidity, preferably max. 65%
Transport requirements	<ul style="list-style-type: none"> ✓ frost-free
Transport hazard category	<ul style="list-style-type: none"> ✓ 9
Storage requirements	<ul style="list-style-type: none"> ✓ frost-free
Shelf-life	<ul style="list-style-type: none"> ✓ 9 months
Giscode	<ul style="list-style-type: none"> ✓ RE20
Ecode	<ul style="list-style-type: none"> ✓ EC1 plus
Available packaging	<ul style="list-style-type: none"> ✓ In plastic bucket 2,5 kg (hardener WEP180) ✓ In canister 1 kg (resin WEP180)
Allocation article-no. hardener 2c	<ul style="list-style-type: none"> ✓ 111610
Mixing ratio component B	<ul style="list-style-type: none"> ✓ 1
Transport UN-number	<ul style="list-style-type: none"> ✓ 3082



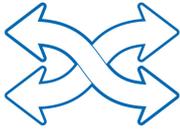
EXAMINATION OF SUBFLOOR

Prior to processing, the subfloor must be checked according to the standard DIN 18356, DIN 18365 or corresponding national standards. The subfloor shall be resistant to pressure and tension, free of cracks, must have sufficient surface strength, be permanently dry, level, clean and free of from contaminants that may prevent adhesion, sinter layers etc. In addition, porosity and grip of surface need to be checked. Also check moisture content and absorption of subfloors as well as temperature, air humidity and subfloor temperature. Calciumsulfate (flow) floors and magnesite floors must be permanently dry, cement floors with residual moisture may receive as damp proof membrane by applying the STAUF primer. The maximum permissible residual moisture content for cement screed is 4.0 CM-%.



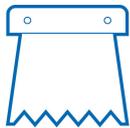
SUBFLOOR PREPARATION

It must be ensured that the subfloor is ready for installation by performing proper subfloor preparation, floors must be clean, have sufficient surface strength, must be level, permanently dry and free of cracks. A mechanical pretreatment of the subfloor (sweeping, vacuuming, mechanical brushing, sanding, milling, shot blasting) must be performed depending on type and condition of subfloor. Cracks and joints, except expansion joints and other construction joints, shall be solidly closed with STAUF repair resin and floor brackets. Cavities and indentations can be filled with a non self-levelling STAUF levelling compound.



MIXING PROCEDURE OF COMPONENTS

Both components should be brought to the processing temperature (approx. 20°C) before use. Pour the entire contents of the plastic bottle into the bucket with the hardener component. Mix the components: Keep mixing the two components together (for at least two minutes) with an electric drill or electric agitator (at approximately 400 RPM) with disposable agitator attachment until the mixture has a uniform colour. Make sure that compounds are well mixed on walls and bottom of bucket. Always mix the entire contents of the container in order to achieve the correct mixing ratio. If required, then slowly add a quantity of water equivalent to the total quantity of components A and B together and mix for approximately two minutes.



PROCESSING

Apply the primer quickly and evenly with a suitable roller, taking care to prevent puddles from forming. Primer soaks into porous, absorbent subfloors and forms a closed film on dense, non-absorbent subfloors. When using the primer as a vapour barrier, and when applying several coats, particularly in combination with sanding, apply the primer until the substrate is saturated. The saturation point has been reached when an unmistakable and evenly distributed excess of primer is visible and remains on the surface of the screed. If sanding is required, sprinkle dry STAUF Quartz Sand (grain size 0.4 to 0.8 mm, using approx. 2.5 kg/m²) liberally onto the surface immediately after applying the primer. If the STAUF primer is used as a vapour barrier, the first coat has not to be sprinkled; a second coat of primer is applied after at least two hours (if further coats are applied, the waiting time is at least five hours). After a period of at least five hours, the excess sand can be swept off and vacuumed up. After at least five hours but no later than 72 hours after application of the primer, PUK, SPU or SMP adhesives can be applied directly, without previous sprinkling of sand. After at least five hours but no later than 72 hours after the epoxy resin primer has dried, STAUF VDP 160 may be applied as an adhesion promoting primer, in place of quartz sand, before the application of STAUF filling compounds.



OTHER INFORMATION

When used as a vapour barrier primer on residual moisture cement screeds, no damage to floor coverings or parquet caused by generally excessive building moisture can be excluded. For heated cement screeds with excessive residual moisture, consult STAUF application technology. Not a valid substitute for sealing according to DIN 18533.



LIMITATION OF LIABILITY

The foregoing representations are based on the results of our most current product and material testing and are of a non-obligatory advisory nature only since we have no control over the actual quality of workmanship, materials used and worksite conditions. As such, they do not constitute an express or implied warranty of any kind. The same applies to our commercial and technical consultation services which are provided free-of-charge and without obligation. Therefore, we strongly recommend that prior on-site testing be conducted to observe and study the suitability of the product for the intended purpose. With the release of this technical information, all prior technical information (technical data sheets, installation recommendations and other information regarding similar purposes) becomes invalid.

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