



STAUF WEP 180

Solvent-free 2-component water epoxy resin based primer



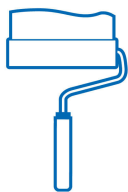
Technical Datasheet	
Product number	✓ 111600
Special features	<ul style="list-style-type: none"> ✓ Reinforcement of substrates ✓ Deeply penetrating epoxy resin ✓ Vapour barrier on substrates containing residual moisture up to 95% r.h. (4.0 CM%) ✓ Quick drying ✓ Easy to apply ✓ WEP 180 Tutorial-Clip
Application 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 (P4 to P7), OSB boards (OSB/2 to OSB/4) ✓ 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 ✓ 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 significantly 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 18 °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 ✓ dry ✓ cool
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

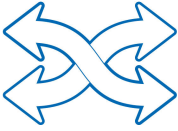
Prior to processing, the subfloor must be checked according to the standard DIN 18356, DIN 18365 or corresponding national standards. The subfloor shall be resistant to pressure and tension, free of cracks, must have sufficient surface strength, be permanently dry, level, clean and free of contaminants 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 95% r.h. (4.0 CM%).



SUBFLOOR PREPARATION

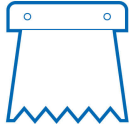
It must be ensured that the subfloor is ready for installation by performing proper subfloor preparation, floors must be clean, have sufficient surface strength, must be level, permanently dry and free of cracks. A mechanical pretreatment of the subfloor (sweeping, vacuuming, mechanical brushing, sanding, 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 2-3 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. Best for use at 18 - 25 °C, substrate temperature between 15 - 23 °C (with underfloor heating 18 - 22 °C) and relative humidity below 65 %, until the adhesive has set.

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 above information corresponds to the current state of development and practical experience. However, it is only intended to assist you in selecting our products and should be considered non-binding in all cases, as we have no influence on installation and installation requirements vary from place to place. Claims based on this information are therefore excluded. The same applies to the commercial and technical advisory service provided free of charge and without obligation. We would like to point out that the customer and installer must carry out sufficient tests themselves to ensure that the product is suitable for the intended use. With the publication of this information, all previous technical information (information sheets, installation recommendations and other information intended for similar purposes) loses its validity.