

SatePox SL130F

Colored, solvent free, trowel grade, filled two component epoxy resin

Properties

This epoxy resin compound containing mineral fillers offers outstanding resistance to water, mineral oil, petrol, numerous alkaline solutions, acids and other chemicals (see chemical resistance chart).

It has high compressive and tensile strength and high bonding to concrete, rendering and steel. It is resistant to abrasion and temperatures.

Pot life is dependent on temperature and container size; at a temperature of +23°C and container size of appr. 200 g the pot life is about 35 minutes.

Area of applications

SatePox SL130F is suitable for the coating of vertical or sloped substrates, such as heavy bodied industrial floors resistant to impact and abrasion, in particular for the chemical and petroleum industries. It is used coating of concrete roads, protection of sewage pipes, sealing of bell joints of pressure pipe lines. It has excellent adhesive for metal, concrete and stone due to its high bonding, compressive and tensile strengths.

Product Data

Base	epoxy resin
Solvents	none
Colours	concrete grey, pebble grey
Consistency	trowable
Density	appr. 1.8 g/cm ³
Mixing ratio	resin base(upside): hardener(below) 90 : 10
Application	trowel
Coating thickness	1 mm and over
Pot life for a material quantity of 5 kg	about 40 minutes at +20°C
Consumption	appr. 1.8 kg/m ² /mm
Consumption as adhesive	appr. 1.8 - 3 kg/m ²
Waiting time between coats	approx. 10 - 15 hours
Dry residue	100 %
Initial drying	appr. 10 hours at +20°C
Thorough-hardening time	appr. 3-4 days at +20°C
Temperature for application	+10°C to +35°C (air and substrate)
Shelf life	min. 12 months
Cleaner, thinner	thinner AX

Working instructions

Preparation of substrates

Concrete, screed, cement rendering and steel are suitable as substrates. The surfaces must be free of all loose particles, rust, laitance, oil, grease and dust. Slightly oily surfaces must be cleaned with Satex CL (oil and grease solvent). Oily surfaces must be cleaned mechanically. Drybackings, give the best results. Sand blasted or milled surfaces guarantee best adhesion. In the case of application onto concrete surfaces in contact with water or humidity (below ground level) an exterior waterproofing with for instance Satex DS is recommended. Smooth, glazed, sintered, polished surfaces or cement based substrates with smooth finish must be pre-treated by sandblasting or milling, so that a clean and rough surface is obtained. Old and cured epoxy resin coats cannot be painted over with SatePox SL130F and must be removed by sandblasting.

Mixing

SatePox SL130F is supplied in a two component container. The quantity of hardener in the lower part of the container is measured according to the quantity of resin base in the upper part. If smaller amounts are required, the mixing ratio in parts by weight as stated on the container label must be adhered to. The hardener is emptied into the resin base and mixed carefully. An electric drill with an attached stirrer at low speed will be required for mixing.

Working instructions

Absorbent surfaces receive a priming coat of or PR10 (solvent free epoxy resin). Porous concrete surfaces must be filled with a thin coat of SatePox SL130F. The material is applied by trowel into the voids before full application begins. The interval between two applications should be calculated so that the first application is still tacky when the second one is applied, otherwise there will be no bonding between each coating. Depending on the type of substrate, coating thickness, temperature and air circulation, this time can vary between 1 and 10 hours. SatePox SL130F is applied with a trowel or spatula. When applying to moist surfaces which are exposed to strong sunshine or frost, the surface must be allowed to dry, otherwise the enclosures of substantial moisture pockets will result in blister formation and frost damage.

Coatings applied to horizontal surfaces must be applied in one operation. In the case of vertical surfaces several coatings may be necessary; the previous coating must, however, be still tacky when the next one is applied. The smooth surface of epoxy resin coatings might be slipping if wet or oily.

Watchpoints

Epoxy resins are not generally permeable to vapor. Vapor pressure may form on concrete surfaces which are exposed to humidity (below ground level) or which are not completely dry before the application of epoxy resin. In such cases the vapor pressure may cause a peeling of the resin coating. For high quality two component resins, such as epoxy or polyurethane resins the concrete surfaces must have a compressive strength of at least 30 N/mm² and a tensile strength of at least 1.5 N/mm².

Consumption

The consumption of SatePox SL130F as coating is appr. 1.8 kg/m² and mm thickness. The consumption of SatePox SL130F as adhesive is appr. 1.8 to 3 kg/m² depending on the texture of the surface.

Delivery and storage

SatePox SL130F is delivered in the colours pebble grey (RAL 7032) and concrete grey (RAL 7023) in two component containers of 30 kg. If kept unopened and stored in a cool place, SatePoxSL 130F has a shelf life of min. 12 months.

Notes

This data sheet is based on comprehensive experiences, intends to inform to the best knowledge, is not legally binding and does not constitute a contractual legal relationship or a side obligation from the purchase agreement. We guarantee for the quality of our product under our terms and conditions of sale and purchase. In to reduce the risk of error, limiting information is also stated. We reserve the right to make changes representing technical progress. This data sheet supersedes all earlier technical data on this product.