EURODUR EPV 0411 groundfix rapid

rapid-hardening, epoxy resin-based grout

Product description	**EURODUR EPV 0411 groundfix rapid** is a mineral-filled, rapid-hardening, highly pourable, 2-component, epoxy resin-based reaction resin.
Area of application	**EURODUR EPV 0411 groundfix rapid** was developed for construction measures in airports, such as installing underfloor lamps in concrete slabs. Structural grouting of metal anchors, such as the embedding of anchors and threaded bolts as well as dowelling in crash barrier and bridge construction, is also possible. **Especially recommended for use in situations where only a very short time is available for installation and curing and temperatures are low (1°C - 15°C). Owing to the very high reactivity of the product, which results in very short processing time, use is restricted to the above-mentioned temperature range.**
Product characteristics	- highly chemical resistant, e.g. to fuels, oils, aircraft fuels, de-icing agents and many more media in accordance with the chemical resistance list - very high UV, weathering and ageing resistance - excellent resistance to notching and wear
Colour	Grey
Substrate preparation	Drilled holes or recesses must be free of dust, loose rock, drilling mud and other dirt. Standing water must be removed. A **slightly** damp substrate is acceptable.
Handling	The base (A) and hardener component (B) are packaged in a precisely proportioned mixture ratio. If component A has become highly compacted at the base due to prolonged storage, this must be broken up with a trowel before stirring. Component A must be stirred until smooth. Stirring duration 3 - 5 minutes (check against clock!). An electric hand-held mixing device is

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	recommended for stirring and mixing, e.g. a slow-running drill (300-400 rpm) with a mounted mixing blade. The container sides and bottom must be firmly scraped several times during mixing. Mixing duration 1 - 2 minutes. Then pour into a clean container and thoroughly mix again. The material will have a uniform appearance when completely mixed. Then pour the mixed material immediately. If re-potting and remixing was not carried out after mixing component A with the hardener, the material may only be applied by pouring. To prevent use of unmixed or incompletely mixed parts of the material on the sides of the container, the container must not be scraped out.
Cleaning	Fresh material can be removed from the tools with EUROLASTIC Cleaner G. Mechanical cleaning will be required if the material has fully cured.
Consumption	Specific weight (mixture): 1.93 g/cm^3
Packaging	8 kg container incl. hardener
Storage and shelf life	Store in a cool, dry place (+10°C to +25°C). Under these conditions, the shelf life of unopened and undamaged original containers is 6 months.
Tests/ Approvals/Standards	Works testing, self-monitoring
Special instructions/protective measures	**EURODUR EPV 0411 groundfix rapid** may only be processed in well ventilated areas. Suitable protective clothing must be worn when working. Waste and containers must be disposed of in a safe manner. Avoid release into the environment. The instructions in the corresponding safety data sheet must be strictly observed.

Technical data*		
Technical properties	**Unit**	**Value**
Material basis		Epoxy resin
Mixture ratio A: B	Parts by	91: 9
Number of components		2-component
Density at +23°C	g/cm³	1.93
Solids content at +23°C	%	99 ± 1 weight %
Compressive strength	N/mm²	over 70
Adhesive strength on concrete:	N/mm²	over 2.5 (cracks in concrete)
Flexural strength	N/mm²	over 30
Temperature resistance	°C	up to approx. +80 (continuous load)
Temperature resistance	°C	up to approx. +120 (short-term)
Minimum curing/object temperature	°C	+10 (normal hardener)
Minimum curing/object temperature or	°C	+1 (rapid hardener)
Max. processing/object temperature	°C	+20 (normal hardener)
Max. processing/object temperature	°C	+15 (rapid hardener)
Thermal conductivity	W/mK	0.5

	*Processing time (minutes)			*loadable after (hours)			cured after (days)		
	+ 1°C	+ 10°C	+ 20°C	+ 1°C	+ 10°C	+ 20°C	+ 1°C	+ 10°C	+20°C
Normal hardener	-	12	6	-	7	3	-	3	2
Rapid hardener	20	10	-	8	2	-	4	1	-

* These are approximate values. The values are not intended for the preparation of specifications.

The data was determined at +23°C and 50% relative humidity. These times may be longer or shorter at higher temperatures and/or relative humidities. All technical data, measurements and information in this data sheet are based on laboratory tests. Actual measured data may deviate in practice.