

Thomsit

R 727

Product Information 01.01.2001

FLOW EPOXY - FAST

Special 2-component epoxy resin for mineral and bituminous substrates

- ▷ solvent free
- ▷ ideal for crack repairs
- ▷ very fast setting
- ▷ suitable for heavy duty substrates
- ▷ very high bond strength



Description

Special, 2-component epoxy resin for the repair and pre-treatment of mineral and asphalt substrates. Especially suitable for crack repairs or "stitch-bonding" of cement/sand screeds. Can also be used as a rapid repair/alternative to Thomsit R 755 Membrane.

Properties

Solvent free, 2-component epoxy resin. Very fast setting. Very low viscosity. High penetration and strong mechanical attachment. Easy to mix and apply.

Substrates

It is recommended that all mineral based substrates be tested for rising or retained moisture. Substrates must have an adequate structural DPM. Where the residual moisture content is too high (e.g. above 75% Relative Humidity), especially common in new construction, a Thomsit epoxy membrane may be required. The substrate must be of adequate compressive and tensile strength, dry and free from laitence, dust, surface treatments or contamination, which would impair the bond of the product. Mechanical preparation may be required, e.g. diamond grinding or sawing with vacuum extraction. For further advice please contact Thomsit Technical Services.

Application

Thomsit R 727 is supplied in a 2-component combi-can. Component A is in the base of the canister and component B is in the lid. Pierce through the plastic lug and base of the lid with a long screwdriver or similar. Allow component B to pour into the base. Remove the lid and ensure that it is empty. Thoroughly mix the two components together with a drill and suitable mixing paddle. Do not mix by hand. Immediately apply the mixed product to the prepared area. For crack repairs use a suitable pouring vessel. To restrict the flow, Thomsit R 727 can be mixed with fine, dry aggregate. For application to floor surfaces use a medium pile roller. Avoid pooling. Allow the product to reach initial cure before proceeding.

N.B. Thomsit R 727 is very fast setting; ensure the product is used within the 10 – 15 minute "pot life".

To form a mechanical key for Thomsit smoothing and self-levelling compounds, broadcast Thomsit Fine Aggregate (0.3 – 0.8mm) into the wet Thomsit R 727 (minimum coverage 2 kg/m²). Ensure that the whole area is covered with an excess of dry sand. Continually check that the applied sand has not sunk or been absorbed into the Thomsit R 727, re-broadcast where necessary. Once the Thomsit R 727 has reached initial cure the excess sand can be swept and/or vacuumed off. Alternatively, in some situations, Thomsit R 758 Waterpoxy[®] Primer can be used. Apply Thomsit R 727 in accordance with the minimum ambient conditions and the practices prescribed in British/DIN/European Standards, e.g. BS CP 8203 & 5325; 1996, BS CP 8201, DIN 18 365.

Technical Information

Colour	comp. A: red	comp. B: clear to yellow
Viscosity	comp. A: thick liquid	comp. B: thin liquid
Specific gravity	comp. A: 1.6 kg/ltr	comp. B: 1 kg/ltr.
Mixing ratio	comp. A: 7 by weight	comp. B: 1 by weight
Pot life	* 10 - 15 min.	
Consumption	dependent upon use	
Curing times under normal climatic conditions:	Initial cure	* 2 - 3 hours
	Full cure	* 12 - 24 hours
Temperature resistance for transport and storage	0 °C to 50 °C.	
Temperature resistance after setting	-20°C to 50°C	
Water resistance	resistant to water when cured	
Storage	12 months under normal conditions	
Hazardous substance regulations	comp. A: Xi = Irritant	comp. B: C = Corrosive
		comp. B: Xn = Harmful
	contains: epoxy-resin (number average MW <=700)	contains: polyamine, 2-piperazine-1-ethylamine
Packaging:	12 X 1kg combi-can	pallet quantity: 27
	5 kg combi-can	pallet quantity: 52

* The above information applies at normal ambient conditions, e.g. 20 °C and 55% Relative Humidity.

Health & Safety

Component A (resin)
Xi = Irritant, contains epoxy resin
Take note of manufacturer information
Irritant to eyes and skin.
Possible sensitivity on skin contact

Component B (hardener)
C = Corrosive, Xn = Harmful, contains
Polyamine, 2-piperazine-1-ethylamine
Avoid contact with eyes and skin
Harmful if swallowed

If either product comes into contact with eyes, flush with plenty of clean water and seek immediate medical assistance. Where appropriate, wear suitable Personal Protective Equipment (PPE) e.g. gloves, eye protection, clothing, etc. For further advice, please read the relevant Thomsit Safety Data Sheets, available upon request.



Care should be taken. Inform & protect others during use



Roller applied

Disposal

Do not pour directly into drains. Retain the product for later use, or if beyond shelf life, mix components together, allow to cure and then dispose of the product in accordance with local regulations. Dispose of empty containers in accordance with local regulations, or where appropriate recycle.

The information contained herein is general and not intended to be specific to any substrate, project or product system. The information is based on our experience to-date and the results of continuous and careful testing. Varying conditions and methods of use will influence the practical application of this product. The products optimum performance is also dependent upon the professional judgement of the user and their conformity to proper trade practice, relevant standards and codes of practice for installation, which are factors outside of our control.

The issue of this Thomsit Product Information Sheet supersedes all previous information relevant to this product.

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