

Flow Epoxy Resin

R 727

Casting resin for high-strength repair of of fine cracks and joints in screeds



FEATURES AND BENEFITS

- Very low emissions
- High flowability
- Ideally suited for fine cracks

FIELDS OF APPLICATION

Very low-emission, two-component casting resin for the:

- force-fit resin bonding of cracks and joints in screeds.

In the case of larger cracks or wide joints, preferably use THOMSIT R 726 Fast-Setting Resin.

TECHNICAL DATA

	Component A	Component B
Supplied as	rust red, viscous	bright yellow, fluid
Packaging	1 kg, tin can	
Shipping unit	24 boxes à 12 units x 1 kg per pallet	
Mixing ratio A : B	7 : 1 parts by weight	
Pot life	approx. 15 minutes	
Ready for levelling	after 60 minutes at the earliest	
Temperature resistance		
after curing	up to +50° C, can be used on underfloor heating constructions	
for transport	-20 °C to +50 °C	
for storage	+10 °C to +30 °C	

Shelf life	12 months, cool and dry
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The above times were measured under standard climatic conditions (23 °C/50 % rel. air humidity). Please note that under other climatic conditions curing resp. hardening may be accelerated or delayed.

CONSUMPTION

Closing screed cracks and joints	Consumption depends on width and depth of cracks and joints
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PREPARATION OF SUBSTRATE

Substrates must be clean, dry, load-bearing and free of substances which may impair adhesion. Remove crumbling, unstable areas on the screed edges. Cracks or joints may have to be enlarged with a cutting disk to ensure the optimum penetration of the casting resin. The penetration depth must be at least 2/3 of the screed thickness. Carefully vacuum off the dust in cracks that were mechanically pretreated.

If necessary (e.g. definite movement of the screed layer), make transverse cuts approx. every 20 to 30 cm into the screed, vacuum off the dust and embed steel nails or repair clamps into the cuts.

APPLICATION PROCEDURE

THOMSIT R 727 Flow Epoxy Resin consists of two components (resin and hardener), supplied in two separate compartments of the container. Unscrew the upper part and empty the hardener completely into the opened lower part of the container. Afterwards, mix the resin and hardener carefully for at least 1 minute. If available, use a continuously adjustable stirrer. For crack repair fill the casting resin from the tin into the prepared screed cracks or joints and smooth it over. Sprinkle a generous amount of fire-dried quartz sand THOMSIT QS 10 (grain size 0.4 – 0.8 mm) into the still fresh resin to ensure better bonding of subsequently applied levelling compounds or adhesives. Remove any excess sand after hardening. The surface can be screeded over after 1 hour at the earliest.

PLEASE NOTE

- Basic prerequisites for achieving best indoor air quality after carrying out floor installation work are conformity to the standard working conditions as well as completely dry substrates, primers and levelling compounds.
- Only carry out floor installation work if the floor temperature is above 15 °C, air temperature above 18 °C and relative humidity below 75 %.
- Immediately remove fresh product stains with alcohol (spirit). Clean the tools with alcohol (spirit) directly after use.
- Do not scrape product remains from the bottle.
- The pot life and hardening of the resin depend on the temperature. They will be shorter at higher temperatures and longer at lower temperatures.

PRODUCT SAFETY

FOR COMMERCIAL/INDUSTRIAL USE ONLY.

Basic component A

Contains bisphenol A/F epichlorohydrin resins, butanediol diglycidyl ether, hexanediol diglycidyl ether.

Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

Avoid release to the environment. Wear protective gloves and eye/face protection. Do not breathe vapor. Wash thoroughly after use with plenty of soap and water. Do not wear contaminated work clothing outside of the workplace. If in eyes: Rinse cautiously with water for several minutes. If possible, remove contact lenses. Continue rinsing. Immediately call a POISON CENTER or physician. After skin contact: Wash with plenty of soap and water. In case of skin irritation: Get medical advice, get medical attention. Take off contaminated clothing and wash before reuse. Dispose of contents/container to hazardous waste disposal.

Hardener component B

Contains: Trimethylhexane-1,6-diamine, reaction product based on 1,3-phenylenedimethaneamine with formaldehyde and p-tert. butyl phenol.

Harmful if swallowed. May cause an allergic skin reaction. Causes serious irritation of the skin and serious eye damage. May cause respiratory irritation. Suspected of affecting fertility. Suspected of damaging the unborn child. Toxic to aquatic life with long lasting effects.

Avoid release to the environment. Wear protective gloves and eye/face protection. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after use with plenty of soap and water. Do not wear contaminated work clothing outside of the workplace. If in eyes: Rinse cautiously with water for several minutes. If possible, remove contact lenses. Continue rinsing. Immediately call a POISON CENTER or physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep breathing unhindered. If swallowed: rinse mouth. Do not induce vomiting. Take off contaminated clothing and wash before reuse. Clean up spills. Keep in a well-ventilated place. Keep container tightly closed. Store under lock and key. Dispose of contents/container to hazardous waste disposal.

Further information can be found in the safety data sheet at www.thomsit.com.

The following information sheet from the trade association for the construction industry, Bau-BG, must be observed:

Practical guidelines for handling epoxy resins, published by the trade association for the construction industry www.bgbau.de or www.gisbau.de. BGR 227, activities with epoxy resins, published by the main association of commercial professional associations www.dguv.de.

Further information at www.gisbau.de and <http://www.gisbau.de/wingis/wingis1.html>

Safety information hotline: Tel +49 (821) 5901-0; Emergency phone: +49 (180) 2273-112, on-call service 24 hours a day

GISCODE RE 30

solvent-free acc. to TRGS 610

EMICODE EC 1^{PLUS}R

very low-emission

TECHNICAL INFORMATION

Please also follow the instructions in the following information sheets:

- "Assessment and preparation of substrates" of the Bundesverband Estrich und Belag e.V. (BEB), Troisdorf (www.beb-online.de)
- Briefing notes of the Technische Kommission Bauklebstoffe (www.klebstoffe.com, see under "Publications")
- Generally recognized rules of flooring technology as well as the applicable national standards

SERVICE FOR ARCHITECTS AND DESIGNERS

Please contact our sales force if you need advice or building project support. Further documents can be downloaded from the internet at www.thomsit.com.

DISPOSAL

Further information on disposal can be found on our homepage at <http://www.thomsit.de/services-seminare/entsorgungshinweise>. Do not allow the product to enter sewer systems, surface waters or the soil. Only return the completely emptied buckets for recycling. Dried material residues can be disposed of as household waste. Non-hardened product residues must be taken to a collection point for hazardous waste.

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The above information, in particular recommendations for the handling and use of our products, is based on our professional knowledge and experience. As materials and conditions may vary with each intended application and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for the intended application method and use. Legal liability cannot be accepted on the basis of the contents of this technical data sheet or any verbal advice given unless there is evidence of wilful intent or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.