

CRACK FILLER™ EP 550

Epoxy repair
paste

MIXING RATIO
1A : 1B
by volume

CHARACTERISTICS

Excellent adhesion

Easy machining and sanding

Ideal for aggressive
environments

Dries quickly

No shrinkage

Highly thixotropic

Fast recovery time (after 3
hours)

VOC-free

Does not encourage
bacteria/mold production



Contact POLYMÈRES TECHNOLOGIES
for more information:
support@polymerestechologies.com

DESCRIPTION

CRACK FILLER™ EP 550 is a high performance, 100% solid epoxy repair paste with fast curing, no shrinkage and compatible with different surfaces such as concrete, wood, composites and aluminum, among many others.

Ideal before applying an epoxy coating such as our SHIELD-TEC™ and NOVOSHIELD™ series products.

It is also used for repairing holes, cracks, micro-cracks and any defects that need to be rectified, whether on a concrete block wall, a concrete slab on the ground or a ceiling. This product has high rigidity and is easily sandable. Highly thixotropic, this product is easily applied vertically without dripping. It can also be used at temperatures from 4°C to 40°C.

CRACK FILLER™ EP 550 is useful for applications in food industries, commercial environments, medical environments, offices, garages, shopping centers, warehouses and basements, among many others.

This product has good temperature resistance as well as superior adhesion to concrete. It can also be used as an adhesive in certain applications.

CRACK FILLER™ EP 550 is also available in a “ceiling” version for applications on ceilings of various substrates.

INSTRUCTIONS & PREPARATION

The following steps are to be scrupulously followed when using CRACK FILLER™ EP 550 :

1. Make sure all necessary tools and materials are ready before you begin mixing.
2. Mix parts A and B thoroughly for 3-5 minutes until you obtain a completely homogeneous gray streak-free mixture.
3. Once the mixture is complete, apply immediately to the surface to be corrected according to the needs of the user's project.

Continue reading for more details on each step.

Before using CRACK FILLER™ EP 550, be sure to mix 1 part of A with 1 part of B by volume (or 100 A for 65 B by weight) until a homogeneous mixture is obtained. Before proceeding with the application, it is necessary to ensure that the surfaces to be repaired are free of contaminants.

APPLICATION

Use a spatula or trowel to fill the cracks, porosities, holes and openings to be rectified. Be sure to push to the bottom of the cavity to obtain maximum structural strength. Apply in an angular manner to avoid sitting the product to the bottom of the cavity and the final quality of the repair.

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INSTRUCTIONS (continued)

DIRECTION FOR USE

During application, the pot life and curing time before sanding vary depending on the ambient temperature and the mixed mass. The exotherm of the system varies depending on the thickness deposited and the ambient temperature of the workplace. Since this product only has a pot life of 30 minutes at 22°C (72°F) for a mass of 200 g, care must be taken not to mix more material than is necessary, possible to apply. Always close containers quickly after taking the material.

Once the mixture is homogeneous, apply immediately to the surface and use a spatula to spread the product (coverage may vary depending on the porosity of the substrate). Hazardous situations may be incurred if application of the product after mixing is delayed. When left en masse in its container, epoxy can exhibit the following dangerous behaviors:

- **Increased temperature:** The temperature of the epoxy resin can increase significantly, creating potential fire and burn hazards.
- **Viscosity change:** The viscosity of epoxy can change unpredictably, making it difficult to handle safely.
- **Abrupt curing:** Under certain circumstances, leaving epoxy resin in bulk can cause it to harden abruptly, potentially causing burns and damage.

It is recommended to use this product within 12 months.

STORAGE & CLEANING

Store CRACK FILLER™ EP 550 on a pallet or shelf at 72°F (22°C) and less than 60% relative humidity. A colder environment will increase the viscosity of each part A/B and a warmer environment will decrease it. Uncured material can be easily cleaned using our POLY CLEANER™ product.

Always use our POLY CLEANER™ for cleaning tools and floor spills. Avoid solvents that could contaminate the ambient air in food processing and other environments.

COORDINATES

If you have any questions regarding the safe use of CRACK FILLER™ EP 550, or in the event of an emergency, contact the appropriate emergency services immediately. For further advice, contact us at support@polymerestechologies.com.

User safety is paramount. The customer's understanding and cooperation in the responsible use of our products is appreciated.

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THEORETICAL COVERAGE

2L FORMAT							
FISSURE (in)	0.125	0.187	0.25	0.375	0.5	0.75	1
Linear feet	651	291	162	72	40	18	10
7.56L FORMAT							
FISSURE (in)	0.125	0.187	0.25	0.375	0.5	0.75	1
Linear feet	2,462	1,100	615	273	154	69	38
37.8L FORMAT							
FISSURE (in)	0.125	0.187	0.25	0.375	0.5	0.75	1
Linear feet	12,312	5,500	3,075	1,367	769	342	192

TYPICAL PROPERTIES (AT 22 °C/72 °F)	PART A	PART B	MIXTURE
CONSISTENCY	Paste		
DENSITY (g/cm ³)	1.01	0.64	0.81
MIXING RATIO BY VOLUME	1	1	1/1
MIXING RATIO BY WEIGHT	100	65	100/65
COLOR	White	Gray	Concrete gray
POT LIFE (200cc)	30 minutes		

PHYSICAL PROPERTIES (SOLID STATE AFTER 7 DAYS AT 22 °C/72 °F)			
TESTS	METHOD	RESULTS	
HARDNESS	ASTM D 2240	Shore D	80
COMPRESSIVE STRENGTH	ASTM D 695	MPa	49.8
TENSILE STRENGTH	ASTM D 638	MPa	48.4
ELONGATION	ASTM D 638 Type 4	%	3.9
SETTING TIME REQUIRED BEFORE SANDING	Depending on the applied mass	~ 60 – 180 minutes	
FULL CURE TIME		6 to 12 hours	
RECOVERY TIME		120 minutes	
APPLICATION THICKNESS	Vertical wall	Up to 25 mm	
	On the ground	Up to 50 mm	

*We strongly recommend that the user validate the
application before switching to production mode.*



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PRECAUTIONS

- Consult material safety data sheet prior to use.
- Normal health and safety measures should be observed when handling this product.
- Ensure good ventilation.
- Wear gloves, safety glasses, and protective clothing.
- Do not use part A without its part B, and vice versa. Once the container is opened, POLYMÈRES TECHNOLOGIES can no longer be held responsible for this product.
- Shelf life of this product in original containers is one (1) year from the date of purchase, under recommended storage conditions.
- Keep from freezing. Store this product at 22 °C (72 °F).
- The product will discolor if used outdoors, but this will not affect its properties.

IMPORTANT REMINDER

Concerning the cleaning of the working environment after use of the product in agri-food, pharmaceutical, and other environments, it is very wise to avoid using solvents, which can contaminate the ambient air. That's why we recommend users always use our eco-friendly POLY CLEANER™ cleaner to clean tools and floor spills.

It is recommended to follow provincial and federal safety regulations. In case of eye contact, rinse well with water. In case of skin contact, rinse with soap and water. Keep away from children.

ASSUMPTION OF RISK

The customer assumes all risk and liability for the results obtained by the use of any POLYMÈRES TECHNOLOGIES product, including, without limiting the generality of the foregoing, the use of the CHILL EPOXY™ line of products, and the use of any process, whether in terms of general effectiveness, success, or failure, and regardless of any oral or written statement made by way of technical advice or otherwise, related to the use of any POLYMÈRES TECHNOLOGIES product.

sales@polymerestechologies.com

6330 Boulevard Laurier O, Saint-Hyacinthe, QC J2S 9A7

+1 (450) 250-3058