



SLABFLEX™ 400

TECHNICAL DATA SHEET

PRODUCT ID: SL-501A, SL-502B

Premium quality, two-part epoxy patching compound

PRODUCT DESCRIPTION

SLABFLEX™ 400 is a premium quality 100% solids, two-part epoxy patching compound. It provides epoxy high build, maximum toughness, flexibility, and excellent chemical resistance in a quick drying paste.

USES

SLABFLEX™ 400 is designed to be used on concrete, metal, wood, masonry or where a tough yet flexible epoxy paste is required. Uses include patching surface cracks on concrete floors prior to application of many DPF products or as a general-purpose patch on concrete, block, or wood to fill small voids before coating with other products.

INSPECTION

Surface must be structurally sound, dry, free of oil, grease, curing agents, dirt, dust or other foreign matter. Surface must be roughed up or porous.

PREPARATION

Prepare surface by sanding, grinding, water blasting, sand blasting, or shot blasting to achieve a clean, porous and uniform surface that will allow product to soak in and bond permanently. Clean cracks with a crack chaser (diamond blade). Chip out any loose or unstable material in the area to be filled. The most common reason for coating failure is due to lack of preparation. The surface must be porous or rough enough to allow the product to adhere.

PRIMER

Priming is not necessary for general purpose patching. When installed as part of an epoxy floor system it is best to prime first using the SLABLOC™ epoxy primer. See Vaporsolve product datasheet for application instructions.

COVERAGE

SLABFLEX™ 400 is usually applied by hand and smoothed with a trowel or putty knife. The coverage will vary depending on the thickness applied and the porosity and texture of the surface. For lineal foot coverage per gallon, reference the crack depth with the crack width:

		WIDTH		
		1/4IN	3/8IN	1/2IN
DEPTH	1/4IN	308'	205'	154'
	3/8IN	-	136'	102'
	1/2IN	-	-	77'

MIXING

In a clean and dry bucket thoroughly mix one part A and one part B together. Combine using an agitator or jiffy mixer at low RPM. Mix slowly for at least 3-5 minutes or until completely combined. Only prepare the amount that you can use in a 30-minute period. Containers come pre-measured in 1/2 gallon and 2-gallon kits.

ADDING AGGREGATE

Silica sand (or other aggregates) may be added to enhance workability and increase pot-life and depending on the size will affect the texture and your ability to feather the patching compound. Depending on the size and the amount of the aggregate you add, you will also increase the tensile, compressive strength, and hardness while decreasing the elongation of the product.

APPLICATION

A trowel or putty knife is the best way to apply the epoxy into the crack or void you are attempting to fill. If the area is going to be coated with a thin film coating such as epoxies you may wish to slightly overfill the area then sand it flush the next day to match the texture of the existing surface. Silica sand may be broadcasted into the epoxy to add texture and act as a binder for subsequent coats of material.

DRYING TIME

You may re-apply additional **SLABFLEX™ 400** or most any epoxy system as soon as the product has hardened (usually 4-8 hours). Light foot traffic permitted in 12 hours, normal in 24 hours, light vehicle traffic permitted after 72 hours. All times are based on average temperature of 70 degrees and 50% humidity. Cooler temperatures will decrease drying time.

TEMPERATURE / WEATHER

Do not install this product below 50°F degrees and do not allow water to come into contact until it has cured for 24 hours.

LIMITATIONS

- Do not apply at temperatures below 50°F or above 95°F.
- Do not let mixed product sit in bucket for prolonged period of time or it will become very hot and unstable.
- Do not apply over concrete with Moisture vapor emissions above 4.5 lbs./1000ft²/24hr.
- For interior use only unless protected by a pigmented UV resistant coating.
- Concrete must be cured for a minimum of 28 days.
- Solvents added to thin such as acetone will make product combustible or flammable in which case be aware of sparks or open flame.
- If solvent is added, the product must be applied thinly (300+ft²/gal) to allow the solvent to escape and proper curing to occur.
- Shelf Life of this material is 1 year from the date of manufacturing.

CLEAN UP

Uncured material can be removed with a solvent. Cured material can only be removed mechanically. All empty containers must be disposed of according to local, state, and federal regulations.

TECHNICAL DATA

TEST TYPE	GEL
Viscosity (ASTM D-445-83, Brookfield, TVTD, Spindle 4)	5500-7000
Gel Time (100 g mass/mins) – Techne GT-4 Gelation Timer	35
Tensile Strength (psi) – ASTM D 638-86	1530
Modulus (psi) – ASTM D 695-85 33800	32

Tensile Elongation % - ASTM D 638-86	55
Shore D Hardness – ASTM D 2240-86	45
Thin Film Set Timers, hrs (70□F) – BK Drying Recorder	7 HRS

TECHNICAL SUPPORT

For questions, contact a Desert Polymer Flooring representative.

WARRANTY AND DISCLAIMER

Please read all information in the Safety Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. Desert Polymer Flooring Products are for “Professional Use Only” and preferably applied by professionals who have prior experience with the Desert Polymer Flooring Products or have undergone training in application of Desert Polymer Flooring Products. Published technical data and instructions are subject to change without notice. Contact your local Desert Polymer Flooring representative or visit our website for current technical data, instructions, and project specific recommendations.

LIMITED WARRANTY

Desert Polymer Flooring warrants its products to be free of manufacturing defects and that they will meet Desert Polymer Flooring current published physical and chemical properties. Seller’s sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by Desert Polymer Flooring of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Desert Polymer Flooring shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Desert Polymer Flooring shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Desert Polymer Flooring reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user’s responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor

manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Desert Polymer Flooring makes no claim that these tests or any other tests, accurately represent all environments.

FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. KEEP CONTAINERS TIGHTLY CLOSED.

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