



ABOTAR 8101-8

ABOTAR 8607-1

VERSATILE SOLVENTLESS TAR-EPOXY COMPOUNDS FOR FILLING, RESURFACING, AND PATCHING

ABOTAR 8101-8

2-part tar-epoxy variable-ratio system. Weather and waterproof, flexible, acid, alkali, and fuel resistant. Used neat or with sand or aggregates.

USES:

- Resurfacing and reinforcing asphalt surfaces
- Resurfacing and weatherproofing wood floors
- Consolidating industrial wood-block floors
- Pouring new base-surfaces on outdoor decks
- Rebuilding ship deck surfaces
- Pouring new air-carrier runways on decks
- Pouring new commercial and industrial floors

TECHNICAL DATA:

PART A: Clear resin compound.

PART B: Black coal-tar reactant.

PROPERTY	DATA
% Solids	100%
LBS/Gallon	Part A: 9.5 (4.3 Kg) Part B: 8.0 (3.6 Kg)
Ratios	1 volume A/0.5-2 volumes B
Viscosity	=< 12 poises
Pot Life	=< 1 hour
Induction Period	=> 15 minutes
Application	Cast, roll, brush
Hardening	At ambient temp. No heat needed
Hardening Time	2-12 hours at ambient temp. Faster with heating
Full Physical Properties	2-4 days
Full Cure	5-7 days at 60-80°F; 1-3 hours at 180-210°F.
Hardness, 2/1 ratio	75 Shore D approx.
Hardness, 1/1 ratio	65 Shore D approx.
Hardness, ½ ratio	32 Shore D approx.

REASONS TO PREFER ABOTAR 8101-8:

Controllable flexibility, as in resurfacing asphaltic or bituminous areas with a first soft layer (1 part A/2 parts B, neat or blended with aggregate), followed by harder layers. Non-critical ratios, for cases in which proportioning cannot be reliably controlled.

ABOTAR 8607-1

2-part tar-epoxy lower cost system for filling and leveling pot holes and grossly uneven flooring. Used neat or with sand or aggregates.

USES:

- Resurfacing concrete and masonry
- Mixing with sand and gravel for grouts
- Filling pot holes and cracks
- Leveling severely spalled surfaces
- Resurfacing driveways
- Weatherproof cable embedment in floors
- Structural adhesive grouts

TECHNICAL DATA:

PART A: Clear resin compound.

PART B: Black coal-tar reactant.

PROPERTY	DATA
% Solids	100%
LBS/Gallon	Part A: 9.7 (4.4 Kg) Part B: 8.0 (3.6 Kg)
Ratios	1 volume A/1 volume B
Viscosity	=< 80 poises
Pot Life	=< 45 minutes
Induction Period	=> 15 minutes
Application	Cast, roll, brush
Hardening	At ambient temp. No heat needed
Hardening Time	2-10 hours at ambient temp. Faster with heating
Full Physical Properties	2-4 days
Full Cure	4-6 days at 60-80°F; 1-2 hours at 180-210°F.
Hardness, 1/1 ratio	75 Shore D approx.

REASONS TO PREFER ABOTAR 8607-1:

Filling pot holes and gaps with a structurally tough, yet less expensive epoxy/aggregate mix. Making concrete-substitute mixes where more strength than concrete is needed, and where structural pourings must be made that bond permanently where concrete cannot bond.

APPLICATION

SURFACE PREPARATION: Clean and dry surfaces by washing, sandblasting, or other suitable means. Remove loose matter. If a primer is desired, one volume ABOTAR 8101-8 or 8607-1 diluted with 1-2 volume ABOSOLV solvent becomes an excellent primer to be top coated within 2-3 days.

MIXING: Mixing of part A and B must be thorough for both products: at least two minutes with a power agitator equipped with a 3" (7.6 cm) or longer blade. Thorough mixing is essential. Blending sand, fillers, and aggregates into the A/B mix of either 8101-8 or 8607-1 system is not only economical (1 gallon resin can become 3-10 gallons with sand or aggregates) but also technically important. Thick sections of unfilled resin could crack or separate on aging or thermocycling because the resin expands and contracts more than the concrete, metal, or other substratum with heat and cold. Heavy filling with inorganics minimizes the thermal-expansion differences.

RATIOS: The main difference between the two products is the variable proportioning of the 8108-8 system. That is, its hardness can be decreased – and flexibility increased – from 75 Shore D (2 parts A/1 part B) to 35 Shore D (1 part A/2 parts B). This is important for asphaltic surfaces, or protecting or filling areas where severe thermocycling (seasonal outdoors, or numerous industrial applications) could cause cracking at low temperatures. The 8607-1 system has a fixed 1/1 proportioning, but it is more economical for rigid patching and filling.

POT LIFE: Pot life is the time the blend remains workable, before hardening, in the mixing container. As the hardening generates heat, which in turn accelerates the reaction, bulky masses harden much faster (as they retain the reaction heat) than small masses or thin layers from which the heat dissipates.

INDUCTION PERIOD: This is the time the A/B blend must dwell in the mixing container before being applied, to avoid "tacky" or "oily" hardening.

HARDENING: The hardening process is chemical, not "drying." Both ABOTAR products contain no solvent to evaporate. This is one of the reasons for their versatility and lack of appreciable shrinkage. Hardening may last from the pot life to over 10 times as long (the thinner the layer, the slower). Heating accelerates the process. At 180°F (82°C), for instance, hardening can occur within 5-10 minutes, or even faster at higher temperatures.

CURE: The cure is the completion of the reaction and full development of all properties. It continues for 1-2 weeks at room temperature or hours with heat. Heat-cure is unnecessary in normal circumstances. Cold retards hardening and curing. Under 50°F (10°C) the reaction is too slow and requires special accelerated formulations, such as 2 parts ABOTAR 8101-8 or 8607-1 with 1 part ABOCURE 7912-1 (which functions even below freezing weather).

VISCOSITY: Viscosity is reduced by heat and increased by cold. Thus, a warmer resin adheres better because it flows and wets better.

Clean all equipment immediately after use with a suitable solvent, like ABOSOLV.

SAFETY

All safety requirements described here and in the safety data sheets are to be used in addition and in accordance to federal, state, and local regulations. Both ABOTAR systems are to be considered and handled as flammable and potentially hazardous material, due to their contents of epoxide resins, coal tars, and polyamines. The SSPC-PA Guide 3, "A Guide to Safety in Paint Application" should be observed, as well as precautions dealing with flammable materials, toxic vapors from organic materials, proper ventilation in enclosed areas, self-contained respirators where ventilation is not possible, protective/disposable clothing, gloves, goggles, and protection against eventual dust.

LIMITED WARRANTY

The above information is the result of accurate laboratory and field tests. However, no guarantee is offered, as uses and applications are beyond our control. The user is urged to test this product under his own conditions. All warranties, including the implied warranties of merchantability and fitness for a particular purpose, are excluded. In the event of manufacturing defects in the product, purchasers' remedies are limited to the replacement of the product or its purchase price.

TECHNICAL HELP: Technical assistance is available by phone at 800-445-1754, fax at 262-653-2019, or e-mail at info@abatron.com

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