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ABOCAST 8005-6 / ABOCURE 8005-6

TDS 820608

**Coating And Adhesive To Bond New Concrete To Old Concrete And Other Surfaces.
Binder For Aggregates That Must Bond To Wet, Underwater Or Cold Surfaces.
Casting Resin For Filling, Embedding And Resurfacing.**

2-Component Clear Epoxy System for Industrial, Architectural and Marine Uses.

SPECIFICATIONS:

ABOCAST 8005-6: Resin Tan Viscous Filled Liquid 11 lbs/Gallon approximate
ABOCURE 8005-6: Converter Amber Viscous Liquid 10 lbs/Gallon approximate
Proportioning: 7 parts (by volume) ABOCAST 8005-6 are mixed with 3 parts ABOCURE 8005-6.
Pot Life: 30-40 minutes (100 gms @ 25° C).
Hardening Time: 0.5-3 hours @ 25° C; faster with heating, which can reduce the process to minutes or seconds. Thick sections harden faster than thin layers. Cold weather slows hardening.
Cure: Full strength is reached after 2-7 days at room temperature, or in 0.5-1 hour @ 80-120° C.
Heat cure optimizes properties but it is seldom needed.

CHARACTERISTICS:

- **A solventless filled liquid compound** that can be brushed, rolled or high-pressure sprayed to coat or restore concrete, masonry, metal, wood or other surfaces.
- It develops a stronger-than-concrete **bond between wet-poured concrete and old concrete**. It also bonds wet-poured concrete on wood, metal and other surfaces.
- It can be **mixed with aggregate** for applications otherwise considered impossible: **BONDING COMMON OR TERRAZZO-TYPE AGGREGATE TO WOOD, CONCRETE, METAL UNDER WET, DAMP OR DRY CONDITIONS, OR EVEN UNDERWATER**. Furthermore, ABOCAST aggregate or TERRAZZOS AS THIN AS 0.2-0.3 INCHES (5-8 mm) are just as strong as conventional aggregates over 10 times as thick and 10-15 times as heavy.
- It blends with sand, pebbles and chips can be poured and bonded **onto wet and underwater**, as well as dry surfaces.
- **Exceptionally versatile casting, coating and adhesive resin for structural and dielectric applications**. It can be applied in any thickness. It bonds to most rigid surfaces like concrete, wood, metal, masonry, fiberglass, ceramics, glass.
- **Outstanding for resurfacing floors**. It can be used like any paint, but it adheres to more surfaces than most paints, without a primer. It fills pitted, corroded, spalled and damaged areas in any thickness by simply pouring (what conventional paints just cannot do)
- **It can be extended with fillers like sand, gravel, chips** to form adhesive aggregates much stronger than any concrete. For instance, one gallon ABOCAST/ABOCURE blend can be extended to 3-5 gallons aggregate to fill holes, crack and other depressions in pitted and otherwise damaged surfaces, and thus obtain a new surface stringer, more resistant and more attractive than the original.
- **Excellent for functional or decorative nonskid floors**. 40-100 mesh sand or our decorative weatherproof COLORGRIT can be broadcast on the still wet 8005-6 coating to cover it completely. Then, the excess is swept from the hardened surface: a tough, heavy-traffic resistant, skidproof surface results.
- **Chemically resistant**. Unaffected by atmospheric conditions, water, alkalis, diluted acids, several solvents, common detergents, oils and greases.
- **Easy to color**. It takes the color of any compatible pigment with which it is mixed. Light colors should be avoided, as they may tend to darken with time.

SUGGESTED USES:

A government and military specified formulation to coat surfaces onto which new concrete must be poured and bonded permanently: for commercial and residential buildings, bridges, runways, ramps and on any sound or deteriorated area to be resurfaced. All-purpose binder for high-strength aggregate, for terrazzos as strong as concrete terrazzos 10-20 times as thick and heavy and bonding where conventional terrazzos cannot bond. Laminating resin with higher strength, adhesion and much less shrinkage than polyester for fiberglass and other fibrous materials in marine, industrial and general applications. All-purpose resin for maintenance, coating, resurfacing, repairs, laminations, filling, electrical insulation, potting and encapsulation.

VARIANTS:

ABOCAST 8006-4/ ABOCURE 8005-6: For bonding new poured concrete to old concrete and other surfaces. Ratios: 2/1 by weight or volume. Pot Life: 0.5 hour approximate.

ABOSOLV 8006-3 S: Cleanup and thinning solvent for spraying consistency. Also very useful to dilute the above described resins to a 10-20% solids, so that they can be used as their own primer-coats for difficult-to-wet surfaces.

ABOSOLV 8006-3 B: Same as above, but better for brushable consistency.

COLORGRIT: 20-mesh color quartz grit in 6 colors: **WHITE, RED, GREEN, BROWN, BUFF, GRAY.**

When it is blended with, or broadcast on, the above described products, it offers attractive decorative effects, antiskid properties and high chemical resistance. Also used on stairs, tennis courts, pools, patios, porches.

Other modifications are custom-formulated for special applications.

INSTRUCTIONS FOR USE

Surface Preparation. Dirty, dusty, greasy surfaces must be thoroughly cleaned to avoid adhesion failure. Sandblasting or sanding and roughening after washing and degreasing is recommended. In all cases, surfaces must be clean and sound.

Resin/Converter Mixing must be thorough, or “soft spots” will result. A rigid stick, paddle or a power mixer, are all adequate if used properly.

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

Application is simple and requires no specialized tools or skill. Trowels, squeegees, paint rollers, sprayguns, brushes, brooms are all adequate for different purposes. **To bond new concrete to a concrete or other surfaces,** the concrete must be poured onto the ABOCAST 8005-6 (or 8006-4)/ABOCURE 8005-6-coated surface **BEFORE THE COATING HARDENS**, that is, within 2-5 hrs.

Blending fillers and aggregates into the ABOCAST/ABOCURE mix is not only economical (1 gallon resin can become 3-5 gallons filled resin) but it has important technical reason. Thick sections of unfilled resin could crack or separate because the resin expands and contracts much more than concrete with heat and cold. Heavy filling with sand minimizes this thermal expansion difference.

Hardening, Cure, Temperature. The **hardening** process is chemical; it is not “drying”, as in conventional paint, from which solvent evaporates. **The 8005-6 System contains no solvent.** This is one of the reasons for its versatility and lack of appreciable shrinkage. Hardening may last from the pot-life time to over 10 times as long (the thinner the layer, the slower). **Heating accelerates the process** very much. At 180° F (from heat lamp, blow torch, space heaters etc.), for instance 8005-6 can be hardened in about 4-6 minutes. **Curing** (completion of the reaction and full development of all properties) continues for 1-3 weeks at room temperature, or hours with heat. High-temperature curing is unnecessary with wood and most applications. (For some technical requirements, however, it can be used to maximize strength, rigidity, heat and chemical resistance). **Cold retards hardening and curing.** Under 45° F the reaction is too slow and requires special accelerated formulations. **Viscosity** is reduced by heat and increased by cold. Thus, as a warmer 8005-6 System adheres better because it flows and wets better.