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ABOCAST / ABOCURE 8012-3

TDS 820609

**Solventless resurfacer and coating for dry and damp surfaces in food processing and dairy plants.
Filler, adhesive, Casting Resin. Binder for grouts, aggregates, Terrazzos.
Industrial Floor Coating.**

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

SPECIFICATIONS:

ABOCAST 8012-3: Resin Clear Low-viscosity Liquid 9.5 lbs/Gallon approximate
ABOCURE 8012-3: Converter Amber Low-viscosity Liquid 8.2 lbs/Gallon approximate
Proportioning: 2 parts (by weight or volume) ABOCAST are mixed with 1 part ABOCURE.
Pot Life: About 0.5-8 hours (100 gms @ 25° C).
Hardening Time: 0.5-8 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 5-10 days at room temperature, or in 0.6-3 hours @ 80-120° C.
Heat cure optimizes properties but it is seldom needed.

CHARACTERISTICS:

- **It surpasses most epoxy floor coatings** in resistance to acetic, citric, lactic and other organic and inorganic acid solutions typical of food processing plants, dairies, breweries. It matches industrial heavy-duty epoxy floor coating and resurfacing compounds for adhesion, durability and most properties.
- **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 dry and damp-wet 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:

Recommended to resurface and coat concrete, metal and wood floors in food processing and bottling plants, dairies, restaurants, commercial kitchens and all places where the above described chemical resistance is required. Just as useful for protecting, or building new surface on, industrial, commercial, architectural and marine floors. 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 8012-3/ABOCURE 50-12: For maximum heat (100° C) and general chemical resistance.

Ratios: 100/12 parts by weight. Pot Life: 35-40 minutes. Better resistance to: solvents and most chemicals other organic and inorganic acids. Also better color, which renders light shades and even white possible.

ABOCAST 8012-3/ 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

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 8012-3 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 8012-3 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 8012-3 System adheres better because it flows and wets better.

The above information is the result of accurate laboratory and field tests. However, no guarantee, expressed or implied, is given, as uses and applications are beyond our control. Specifications are subject to state-of-the-art changes.