



POLYTEK® DEVELOPMENT CORP.
BCC PRODUCTS, INC.

Technical Data Sheet BP-2186 Epoxy Laminating Resin

Description

BP-2186 is a high-temperature, aluminum-filled epoxy laminating resin which provides easy brushing characteristics and quick wet-out of fiberglass cloth, while at the same time limiting run-off from vertical surfaces to a minimum. BP-2186 is formulated to have minimum skin irritation potential and avoids all carcinogenic materials in both the resin and hardener.

Use Procedure

BP-2186 is usually used in conjunction with a high-temperature surface coat such as BP-3176, BP-3178, or BP-3180. Mix the resin and hardener in the ratio of 100 parts resin to 14 parts hardener, by weight. Apply with either a brush or squeegee taking care to avoid excess resin-rich areas. The pot-life of a 114 gram mass will be approximately 55 minutes. Laminates should be allowed to cure for at least 16 hours at 72°F before removing from the mold. Subsequent lamination on top of a cured laminate will have excellent ply-to-ply adhesion. When the laminate is to be used at elevated temperatures, it should be given a post-cure. A suggested cure schedule is:

4 Hrs. @ 130°F
4 Hrs. @ 240°F

Properties

Mix ratio - resin/hardener:	100/14 by weight
Viscosity - Resin 5 @ 5rpm:	20,000 cps
Viscosity - Resin 5 @ 20rpm:	12,000 cps
Viscosity - Hardener 1 @ 20rpm:	65 cps
Viscosity - mixed:	4,100 cps
Pot life - 114 grams:	55 minutes @ 72°F
Specific gravity - resin:	1.217
Specific gravity - hardener:	1.01
Hardness:	Shore D 85
Heat deflection temperature:	240°F

Precautions

Skin contact should be avoided. After using, clean hands with alcohol followed by soap and water. For eye contact, flush with water and consult a physician immediately. For further safety information, please see the Safety Data Sheets for each component.

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