



**P-11 TYPE II
FRP BOND & FILL
THIXOTROPIC
FIBER FILLED**



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DESCRIPTION

The reinforcing strength of P-11 Type II fibrous filler makes it very useful for increased bonding strength or for rebuilding broken or void areas in SMC, RIM and other thermoset composites. P-11 TYPE II FRP BOND & FILL is a smooth thixotropic paste system which exhibits easy mixing and stable application qualities. This system has excellent adhesive qualities, can be readily machined, accepts all types of finishes with "no bleed out", and is considered having low moisture characteristics. P-11 Type II has high impact strength, excellent heat and cold resistance and a very high degree of chemical resistance. It can be applied in varying degrees of thickness with minimal shrinkage. . **Typical bonding applications include: FRP composites to FRP, rebuilding broken areas, metal inserts to fiberglass, marine fabrication, metal to concrete, detail blocks to FRP, wood to wood bonding and metal to metal bonding.**

Please note: Although all three colored versions (black, white and green) of this product are catalyzed with BPO cream hardener, their work life is different.

TYPICAL HANDLING CHARACTERISTICS @ 77°F (25°C)

Mix Ratio with BPO cream hardener (parts by weight)	P-11 TYPE II Green	100R:2H
Work Life (100 gram mass)		4-6 minutes
Mix Ratio with BPO cream hardener (parts by weight)	P-11 TYPE II Black or White	100R:2H
Work Life (100 gram mass)		8-10 minutes
Finish Schedule		15-30 Minutes
Viscosity		Creamy Non-Sag Paste
Specific Gravity		1.38 g/cc
Resin Color Choices		Dark Green/Black/White
BPO Color Options		White/Red/Black
Shelf Life (in original unopened containers)		1 year
Storage Requirement.....		40°F - 80°F (4°C-27°C)

TYPICAL PHYSICAL PROPERTIES

Tensile Strength (ASTM D-638)	2,419psi (17MPa)
Tensile Elongation (ASTM D-638).....	1.3%
Tensile Modulus (ASTM D-638)	398,000psi (2,744MPa)
Compressive Strength (ASTM D-695).....	3,505psi (24MPa)
Compressive Modulus (ASTM D-695).....	63,000psi (434MPa)
Flexural Strength (ASTM D-790).....	4,360psi (30MPa)
Flexural Modulus (ASTM D-790).....	216,100psi (1,490MPa)
Moisture Absorption (24 Hour).....	1.2%
Heat Deflection Temperature @ 66 psi (ASTM D-648)	130°F (55°C)
Heat Deflection Temperature @ 264 psi.....	120°F (49°C)
Coefficient of Thermal Expansion (TMA) (ppm/°F (°C)).....	29 (52)
Hardness.....	83 Shore D

P-11 TYPE II Tech/Revised 1/20/15
Supersedes 6/16/14

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