



**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) .....	<b>P-11 TYPE II Green</b> .....	100R:2H
Work Life (100 gram mass) .....		4-6 minutes
Mix Ratio with BPO cream hardener (parts by weight) .....	<b>P-11 TYPE II Black or White</b> .....	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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