

ABR ORGANICS LIMITED

(An ISO 9001:2015 Certified Company)

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PRODUCT NAME : ABRON PRH 9 (M)
PRODUCT TYPE : PHENOL FORMALDEHYDE
(RESOL TYPE RESIN)

ABRON PRH 9(M) resin system has been specifically developed for use as a resin matrix for FRP Hand Lay Up, RTM and filament winding processes. ABRON - PRH9(M) is resole type phenol formaldehyde resin with very good spread, wettability, surface finish and very good fire resistance. The resin can also be used for filament winding applications too.

For every 100 parts by weight of the resin 6 - 8 parts by weight of the hardener is to be added. Stir / Mix well for about 3-5 minutes. Apply the mixture within 30 minutes. By varying the amount of the catalyst in the resin, the pot life and cure speed can be achieved. Higher the catalyst the shorter will be the pot life and higher cure speed. The composite is to be cured at 60 - 70°C. Post curing of the composite at 80 - 100 C is recommended to obtain optimum thermal and mechanical properties. Slow heating rate to cure the composite is suggested to avoid blisters and optimum cure.

It is essential to use "Phenolic" Compatible fiberglass to obtain best mechanical properties.

Technical Specifications of ABRON PRH9(M) Resin:

Apearance	: BROWN OR AMBER COLOURED
State	: LIQUID
Solid Content	: 70 - 75 %
Specific Gravity at 30°C	: 1.18 - 1.22
Viscosity at 30° C	: 700 - 1200 CPs
Shelf Life AT 25 C	: 30 Days

Technical Specifications of ABRON PRH9(M) Catalyst:

APPEARANCE	: COLOURLESS TO LIGHT YELLOW LIQUID
STATE	: LIQUID
SPECIFIC GRAVITY @ 30°C	: 1.10 - 1.20
pH	: < 2