Design 155 - Basic Plywood & Epoxy Quantities

Plywood

6mm ply 13 sheets 2440mm x 1220mm.

9mm ply 7 sheets 2440mm x 1220mm.

12mm ply 3 sheets 2440mm x 1220mm.

15mm ply ½ sheet (600mm x 2400mm or 1200mm x 1200mm).

Epoxy

WEST system resins are specified, but there are several other suitable boat-building resin systems. The quantities given are necessarily approximate.

#105 Resin + Bonding: 2 off B-packs. 1 B-pack is 3.7L (0.98 US gal)

#205 Hardener Coating: 3 off B-packs.

Or 1 off C-pack. 1 C-pack = 5 B-packs

#205 Fast Hardener is good for the many coating and bonding operations in average workshop conditions and for reasonably small items.

Depending on your building conditions (temperature and humidity), desired finish (clear or pigmented), and the area/complexity of the items to be bonded, you may want to use different hardeners for some or all bonding and coating operations.

#206 Slow Hardener – for bonding if temperatures are quite warm (above, say, 15°C) or the areas of the components are large/complex (like the backbone for example).

#209 Extra Slow Hardener – for bonding when it is hot and/or humid.

#207 Special Clear Hardener – for coating when you want a clear final finish.

If you order B-packs, you can order different types of hardener with each pack.

We recommend that, if your conditions are average – say 10°C - 15°C – that you start with a #105/#205 B-pack, which should be appropriate for bonding the frame components. Once you have gained experience of using WEST you can order further B-packs with different hardeners if necessary.

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Adhesive Fillers

#403 Microfibers Bonding: For all normal thickened resin bonding applications. You will

probably need 1 #403-28 tub (575g - 20 oz each)

#404 High Density

Filler

Bonding: For bonding the hull skin to the chines and backbone in particular.

You will probably need 1 #404-45 tub (1220g - 43 oz). Filler

#405 Filleting Blend For fillet joints (eg: Frames to hull). You will probably need 2 tubs (225g - 8 oz

each).

#406 Colloidal Silica For mixing with #403 for extra strength and #405 for extra smoothness; and can

be used alone with the resin/hardener mix for special strength bonds (eg:

fittings). You will probably need a #406-7 tub (160g - 5.5 oz).

Fairing Fillers

#407 Low Density #410 Microlight The need for these will depend on how fair/accurate your hull is and what level of finish you are aiming for. You will probably need a small quantity in any case. #410 is good for large areas and is easier to sand but not suitable under dark colours. With CNC cut parts, accuracy should be excellent, so only minimal amounts of fairing should be necessary. Leave buying until you can

see what you need.

Additives

#423 Graphite Coating: Inside the centrecase; the centreboard and the rudder board. Only

available in a 340g (12 ox) can which is probably more than you will need.

Equipment

#300 Mini Pumps Order the right pumps for the resin/hardener packs: B-pumps for B-packs; C-

pumps for C-packs. These give the correct 5:1 Resin:Hardener mix and really

are a necessity.

#800 Roller Covers Necessary for coating and wetting out large areas.

Other Items Mixing pots, stirrers, glue brushes etc can be obtained from most any hardware

store – but WEST do supply them also.