

Coppercoat® Surface Preparation

GRP: As is common with all epoxy coatings, it is important that the substrate to be coated is well prepared. All surfaces must be cleaned of all contaminants, including dirt, dust, grease, rust or loose paint. Two-pack epoxy coatings, such as Coppercoat, must be applied to sound and permanent substrates – consequently all surfaces must be cleaned of any previously applied single-pack paint coatings or conventional anti-fouling. The best way to achieve this is to low-pressure slurry blast the hull, though old paint can be removed by hand. Finally, the hull must be abraded to provide a good key for the new epoxy coating. The most efficient method is to use a random orbital electric sander, with 60 to 120 grade discs and paper. Remove the resulting dust before proceeding with the Coppercoat application – either using a soft brush or cloth. The hull can be washed with fresh water but ensure this is allowed to dry before proceeding. Under no circumstances clean the hull with any solvents or oil-based products (such as Acetone).

Iron/Steel/Lead: Bare metal must be first coated with an appropriate two-pack epoxy primer prior to an application of Coppercoat. As is common with all epoxy coatings, it is important that the substrate to be coated is well prepared. All surfaces should be clean and free from oils, bacteria or algal growth and any previously applied single-pack paints or coating. For optimum performance, and where possible, surfaces should be blast cleaned to a minimum of Swedish Standard SA 2.5. Where blast cleaning is not possible, mechanical wire brushing and grinding should be used to achieve a similar standard of preparation. We would recommend applying approximately 500 microns of our 100% solids, solvent-free epoxy, Hycote 152 or the anti-corrosive epoxy GP120. This is normally achieved with 4 coats when applied by roller. Coppercoat can then either be applied to the epoxy primer the following day, whilst the surface is still “tacky”, or once it has fully cured and been abraded lightly. If the vessel has been recently coated with a high quality two-pack epoxy then Coppercoat can be applied directly to this substrate, once it has been fully cleaned and abraded using 180 grade abrasive paper. Remove the resulting dust before proceeding with the Coppercoat application – either using a soft brush or cloth. The hull can be washed with fresh water but ensure this is allowed to dry before proceeding. Under no circumstances clean the hull with any solvents or oil-based products (such as Acetone).

Aluminium: Aluminium must be first coated with an appropriate two-pack epoxy primer prior to an application of Coppercoat. As is common with all epoxy coatings, it is important that the substrate to be coated is well prepared. All surfaces must be cleaned of all contaminants, including dirt, dust, grease, rust or loose paint. The best way to achieve this is a light abrasive blast or by sanding with 120 grade abrasive paper. We recommend applying approximately 500 microns of our 100% solids, solvent-free epoxy, Hycote 152. This is normally achieved with 4 coats when applied by roller. The Coppercoat can then either be applied to the Hycote 152 the following day, whilst the surface is still “tacky”, or once the Hycote 152 has fully cured and been abraded lightly. If the vessel has been recently coated with a high quality two-pack epoxy then Coppercoat can be applied directly to this substrate, once it has been fully cleaned and abraded using 180 grade abrasive paper. Remove the resulting dust before proceeding with the Coppercoat application – either using a soft brush or cloth. The hull can be washed with fresh water but ensure this is allowed to dry before proceeding. Under no circumstances clean the hull with any solvents or oil-based products (such as Acetone).

Wood: Wood must be first coated with an appropriate two-pack, low viscosity epoxy primer prior to an application of Coppercoat. The purpose of this is to “wet out” the surface of the timber. As is common with all epoxy coatings, it is important that the substrate to be coated is well prepared. All surfaces must be cleaned of all contaminants, including dirt, dust, grease, rust or loose paint. The best way to achieve this is to low-pressure slurry blast the hull, though old paint can be removed by hand. We recommend applying approximately 100 microns of our low viscosity system, WME 124. This is normally achieved with 2 coats when applied by roller. The application of Coppercoat would follow on immediately while the surface is still “tacky”. If the vessel has been recently coated with a high quality two pack epoxy then Coppercoat can be applied directly to this substrate, once it has been fully cleaned and abraded using 180 grade abrasive paper. Remove the resulting dust before proceeding with the Coppercoat application – either using a soft brush or cloth. The hull can be washed with fresh water but ensure this is allowed to dry before proceeding. Under no circumstances clean the hull with any solvents or oil-based products (such as Acetone).