

YC – G 4 PRIMER FOR WOOD

POLYURETHANE SEALER

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CHARACTERISTICS

YC-G4 is a one component polyurethane resin that contains solvents. It has been specially developed for application on boats. It is applied in thin coatings, hardens by the release of solvents and cross links with the moisture in the air. It has a highly abrasion resistant gloss surface. YC-G4 has a brownish translucent colour and is not resistant to UV light, it will yellow over a period of time when exposed to sunlight. YC-G4 has excellent adhesion to wood and metal provided the surface is grease and oil free, clean, porous and dry. Metal surfaces should be thoroughly sanded. YC-G4 cannot be applied to bitumen or other coatings that are not solvent resistant. For total chemical resistance it should be allowed to harden for at least 7 days at 20°C and 75 % air humidity. It is chemically resistant to low concentrations of acids and alkalis and water at room temperature. YC-G4 can be pigmented with the addition of max. 5 % of YC-PU PIGMENT PASTE, however, this is only recommended for special applications. The addition of pigment will reduce the mechanical strength as well as the working time and it will increase the rate of yellowing.

AREA OF APPLICATION

Applied as a sealer for wood YC-G4 is a very tough coating for hard woods (e.g. mahogany). It will have a yellowing effect on light woods. YC-G4 can be applied to wood and metal surfaces as an adhesion primer for epoxy and polyester (GRP) coatings. YC-G4 can be used as a binder for wood flour for repairing splits and holes in wood. YC-G4 is not suitable for inside areas (e.g. cabins).

PRODUCT DATA

MATERIAL DATA		
Packaging		0.5 l and 1.0 l container
Colour		brownish transparent
Specific gravity		0,98 g/cm ³
Flashpoint		26 °C
Solids content		50 %
Viscosity at 20°C		ca. 100 m Pa.s
Theoretical consumption		100 ml/m ² on non absorbent surfaces 200-250 ml/m ² on absorbent surfaces

:: INSTRUCTIONS FOR USE

General working instructions

YC-G4 is applied with a brush, roller or spray gun (when spraying a fresh air breathing mask must be used). The consumption should not exceed 250 ml/m² on absorbent surfaces and 100 ml/m² on non absorbent surfaces so as to ensure the coating hardens and to prevent entrapment of the solvent in the surface. During the application do not allow the coating to pool on the surface. On dense or slightly porous surfaces it is recommended that a primer coat is applied first, the YC-G4 should be thinned using polyurethane thinners. The last two coats should always be applied without thinners.

YC-G4 should always be applied in well ventilated areas and above 5°C.

Application of YC-G4 as a wood/sealing coating

YC-G4, with its slightly brownish colour, is a very tough coating for hard woods, e.g. mahogany. It will have a yellowing effect on light woods.

Old paints must be thoroughly grounded off. The penetration and flow properties will be improved by the addition of max. 200 % polyurethane thinners for the first coat and max. 100 % with second coat. At least two coats should be applied without thinner. Allow to harden for min. 6 hours before applying subsequent clear coats e.g. to improve the UV light resistance.

Application of YC-G4 as a primer for epoxy and polyester resin (GRP)

YC-G4 is used as a primer for improving the adhesion of polyester resins to metal, wood and concrete. This applies for both wood and metal hulled boats.

Wood and metal surfaces must be sanded with 80-120 grit dry abrasive paper. When used as a primer only one coat is applied straight from the tin. Allow to harden for 0.5 to 4 hours. Then apply the polyester resin and glassfibre. It is necessary to apply within this period.

Application of YC-G4 as a binder for repairing damaged wood

YC-G4 can be used to fill splits and holes in wood. Remove any loose pieces of wood from the area of the split and clean the surface. Prime the area with a thick coat of YC-G4. Then make up a mixture of YC-G4 and sawdust and fill the split. Even when the same colour sawdust is used it is impossible to match the colour of the wood. The hardening time depends on the depth of fill and the moisture in the wood. If the depth is over 1 cm it is advised that it is filled in two stages allowing the first to harden overnight. The surface will harden more rapidly than the inside.

:: APPLICATION DATA

The time between coats of YC-G4 depends on the porosity of the surface, the temperature, ventilation and humidity. YC-G4 hardens by the release of solvents and then by its reaction with the moisture in the air. In winter the material may take longer to harden if the temperature is near freezing point and the air very dry. When this happens the waiting time between the coats is longer because the tack free time is extended. Before applying the next coat the previous coat must be only slightly tacky. When used as a primer for GRP laminates, the YC-G4 can be applied between 0.5 and a max. of 4 hours. If a two component coating is being applied the solvent must be allowed to almost evaporate, a minimum of 6 hours.

The time between applications of YC-G4 is approx. 2-4 hours or as soon as the surface is tack free. Max. time between coats is 12 hours.

Hardened YC-G4 can only be removed by sanding due to its hard surface.



:: SAFETY

The before mentioned technical data and information, especially the recommendations for applying and using our products, are based on our current knowledge and experience when applied under normal conditions. In practice, the materials, surfaces or site conditions are so different that no warranty regarding the working results or liability, arising out of any relationship, can be inferred neither from this information nor from a verbal consultation, except we are charged with intent or gross negligence. In this case the user is obliged to prove that he has informed us about all points required for a proper and promising judgement in writing, in time and completely. Patent rights of any third party are to be observed. Furthermore, our general sales and delivery Terms and Conditions and the latest Technical Data Sheet, which should be demanded, apply.

Directions for handling and waste disposal are in our Security Safety Data Sheet and the specifications of the Employers Liability Insurance Association for the chemical industry .

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