

G4 Damp Seal is a polyurethane that hardens with moisture. It is brownish translucent in colour. G4 provides a tough, highly durable non-porous seal on most porous materials. Since G4 is hardened by moisture it can be applied to surfaces that contain some moisture although any surface onto which G4 is applied must be dry enough to be porous. This enables the first coat to penetrate and obtain a mechanical grip. G4 can be used in poor application conditions with temperatures down to 0°C and in areas of relative high humidity.

G4 seals damp out of concrete, brick, stone and wood. The coating is hard wearing but flexible and resistant to many acids and alkalis in normal concentrations. It withstands boiling water. While G4 is an excellent sealant it does not have any filling or bridging properties. It will not fill cracks or holes.

Sealing with G4 is easy and quick, three coats can be applied in a day.

G4 is brownish translucent in colour and is effected by UV light. Therefore it is for internal use unless top coated to protect it from UV light

Where To Use G4

G4 is a very effective coating for damp walls and floors. It can be used in cellars and basements. Because it is hard wearing tough and long lasting it is ideal for consolidating dusty and worn concrete floors. It can also be used as a coating for new floors in factories, warehouses and garages. G4 seals concrete floor screeds and smoothing underlayments prior laying cork or vinyl tiles or other floor covering. G4 prevents rising moisture which destroys the adhesive and the tiles.

G4 seals garden ponds making them waterproof and easy clean. It also prevents lime from leaching into the water. This is particularly important when fish being kept.

G4 – Damp Walls – Floors

Damp penetrating through walls and floors spoils paint, wallpaper and other surface decorations. G4 seals render and plaster from the inside with a non porous coating. G4 penetrates into the porous substrate bonding strongly and sealing the surface against damp. A 3 coat application is advised.

G4 cannot be used on very dense surfaces, e.g. tiles, quarry tiles, granolithic, mosaic or other similar dense materials. G4 cannot be applied to bitumen.

Surface Preparation

For maximum effectiveness G4 should be applied to a porous and bare surface. All existing coatings should be removed. In practice this may not be possible in which case the sealing ability and adhesion will be between the existing coating and the G4. Loose pointing in brick walls should be replaced before application. Cracked and worn areas in floors should be repaired. G4 can be applied on top of plaster or cement render provided they are securely bonded to the substrate, while G4 is a moisture hardened sealant it is necessary for the substrate to be dry enough to be porous. This enables maximum penetration. If the surface is too damp the G4 can de-laminate or blister. It may be necessary to dry out the floor artificially. Should there be any doubts test a small area to establish whether adhesion is impaired.

Application of G4

Applying G4 is quick, simple and easy by brush or roller. When using a roller, on horizontal surfaces, ensure that the G4 does not 'puddle' in any undulations.

For most damp proofing a three coat application is recommended to build up a continuous surface film. Each coat can be applied as soon as the previous coat is finger tacky (like cellotape), or in the case of a floor, can be walked upon carefully. Each coat must be applied within 4 hours of the previous coat to ensure good adhesion.

When walls are being re-plastered or screeded it is advisable that the last coat is 'blinded' with dry sharp sand while the G4 is still wet. This provides a mechanical key for the plaster or cement render.

Paint & Wallpaper

Enamel, good quality emulsion can be applied to G4 as soon as it is hard. Wallpaper adhesive will take longer to dry since moisture can only evaporate in one direction. When applying a vinyl or heavily embossed wallpaper it is necessary to apply a lining paper first to provide initial grip for the wallpaper adhesive. G4 can be used to seal out soot and other stains.

G4 Repair Mortar

G4 mixed with dry medium sharp sand makes a hard tough mortar for repairing worn floor areas. Remove any loose material and prime with G4. When the G4 is finger tacky make a mix of approx. 6 parts dry sand and 1 part G4 keeping the mix as lean as possible. Do not mix more than can be used in 20 minutes. In deep holes the mortar should be applied in layers no thicker than 10mm allowing each to harden before the next is applied.

G4 Seals Dusty Floors – Easily & Rapidly.

Concrete floors which are subjected to constant wear become dusty and break up. Dust effect and wears out machinery and contaminates products in warehouses and stores.

G4 penetrates into the surface of dusty concrete floors coating the floor with a hard, tough but flexible film. It is quick and easy to apply with a brush, roller, or fine broom. Ensure the G4 does not puddle in any undulations on the floor. A 3 coat application of G4 Standard d will be free to walk upon the following morning.

G4 Colours

G4 Standard is brown translucent. It is also available in Grey, Mid Green (Grass Green) Mid Blue and Black. When coloured G4 is used for floors the first coat is always G4 Standard followed by 2 coats of the coloured G4.

G4 Non Slip Surface

With industrial floors it may be necessary for the floor or gangways to have a non-slip surface. This is simple to apply with fine hard grit (eg carbonundum) evenly scattered into the wet 2nd coat and sealed with a 3rd coat. Alternatively Bonda Non Slip Additive can be stirred into the final coat before it is brushed on.

G4 Seals Ponds

A 3 coat application of G4 seals ponds and is widely used by Koi carp keepers. It applies a waterproof coating and prevents lime from leaking into the water. It is applied to a cement render which must be dry enough to be porous. When applying the render it is advised that a wooden trowel finish is used.

With G4 Standard, 3 coats are applied. When using the coloured G4 is the first 2 coats are G4 Standard followed by 2 coats of coloured G4, a separate leaflet on sealing ponds with G4 is available.

Coverage and Hardening Times

Consumption Standard	Consumption Coloured	Tack Time
1 st Coat 215 grs/sq/m	Standard	30-60 minutes
2 nd Coat 170 grs/sq/m	210 grs/sq/m	90-120 minutes
3 rd Coat = 115grs/sqm	200 grs/sq/m	4-6 Hours walkable
Total 500 grs/sm	625 grs/sqm	

The consumption can vary according to the porosity of the substrate. Full mechanical hardness is achieved after 24 hours and chemical cure after 72 hours. The surface can be walked on after 4-6 hours when it will also be unaffected by rain.

Cleaning

Brushes should be cleaned immediately after use with Bonda Cleaner, Acetone or Cellulose Thinners and then dried. In practice it is impossible to clean rollers.

When applying G4 it is advised that an old brush is used, placed in a plastic bag between applications so it will remain useable for the 3-4 applications and thrown away when finished.

G4 For Wood Sealing

G4 is very effective for sealing (varnishing) wood. G4 can be applied in conditions unacceptable to other varnishes, at low temperatures and high humidity. However, G4 is affected by UV light which will yellow it although in general terms will perform better than most varnishes.

For external varnishing it is advised that Bonda Seal Clear is used.

Bonda Seal Clear

Bonda Seal Clear is formulated from high performance resins and provides a non porous coating with excellent non – yellowing properties. It has good gloss retention and forms a tough, hard and flexible coating. It can be applied in poor conditions and at low temperatures. Each coat hardens quickly and since the next coat can be applied as soon as the previous coat is finger tacky three or four coats can be applied in a day. This will provide a smooth high gloss surface. If a glass like finish is required than allow each coat to harden, lightly flat down, remove dust and apply another coat.

Bonda Seal Clear provides a super seal enhancing the grain and appearance. Both G4 and Bonda Seal Clear can be used for coating cork or lino floors, giving a new gloss and sparkle to old worn floors.

15 Year White Paint

A moisture hardened white gloss paint. Using highly UV light stable resins and premium quality white pigment 15 Year White provides a long lasting, non chalking with high gloss protection to wood and metal. Like our other coatings it can be used at low temperatures down to 0°C and at high relative humidity.

Florida UV light stability tests have shown that paints based on these systems will last and out last conventional finishes.

G4 Floor Coverings

Rising Damp beneath floor coverings is a common cause of failure in the bond between the floor and floor covering. The result is that the floor covering becomes loose, distorted, discoloured and curls at the edges. Up-lifting and re-laying is costly. Three coats of G4 would have prevented this from happening.

G4 is applied in the same way as for sealing damp floors but there are several other important considerations. There for ask for our leaflet – Floor Covering and G4. G4 also provides a hard wearing tough and flexible seal on both cork and wooden floors.

Three coats are recommended

G4 For GRP Laminates and Polyester Resins

G4 is recommended by all the major polyester resin manufactures as a bonding primer between polyester resin (G.R.P.) and materials such as wood, metal and concrete. It is widely used by roofing contractors when applying glassfibre roofs.

Brush on a coat of G4 to the clean base substrate. As soon as it is finger tacky but within 2 hours apply the polyester resin and glassfibre (G.R.P) laminate.

Sheathing A Hull

Sheathing wooden or steel hulled boats reduces maintenance. The Bondaglass method has proven to be a very practical and effective method. G4 is used as a bonding primer between the polyester resin and the wood or seal. The hull should be dry and down to bare wood or still. The G4 is applied, left until finger tacky (no longer than 4 hours_ and the GRP laminate is applied.

Consumption approximately 200 grs/sqm on wood and 165 sq/m on metal. Detailed instructions are given on our GRP Repairs to Boats leaflet.

G4 Primer Cast Iron Ballast Keels

When anti-fouling cast iron ballast keels G4 has proved, in practice, to be a very effective bonding primer. It also forms a non porous seal that helps to prevent rusting. G4 can be applied in conditions where it would be impossible to use conventional coatings, down to 0°C and high relative humidity. The keel must be clean and the first coat of anti-fouling applied while the G4 is finger tacky to ensure good chemical adhesion. There can be a reaction between some anti-fouling and G4, it is advisable to carry out a test before the major applications made.

Bonda Marine Wood Seal

Wood Seal is formulated with high performance moisture hardened resin. It provides a clear waterproof coating with excellent non- yellowing properties, Wood Seal has good gloss retention and forms a tough flexible coating that can be applied in poor conditions and low temperatures. Each coat hardens quickly enabling three or four coats to be applied in a day. This will provide a high gloss surface. Should a super smooth surface be required then each coat can be lightly sanded down, the dust removed and another coat applied.

Bonda Wood Seal gives a super seal to wood.

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Bondaglass-Voss Ltd is only responsible for replacement of material proven to be defective. Before using the user shall determine the suitability of the product for the intended use.

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