

## TECHNICAL DATA SHEET

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### GORI 44



#### PRODUCT DESCRIPTION

<b>Product type</b>	Translucent wood protection. Protects the surface film against mould and fungi.
<b>Special qualities</b>	GORI 44 contains the 'Active Protection' technology. Active Protection is a technology, which allows the products to contain less than half the amount of chemicals compared to conventional wood protection products. The technology ensures reduced leaching, improved UV-protection, longer lasting protection against mould and fungi and reduced risk of discoloration. See more about Active Protection on <a href="http://www.gori.com">www.gori.com</a> .
<b>Where to use</b>	On all types of exterior wood and materials derived from wood.
<b>Form supplied</b>	Ready to use.
<b>Substrate</b>	The surface must be clean, dry and solid. At the time of treatment, the wood moisture content should not be above 18%.
<b>Pre-treatment</b>	<p><u>New wood:</u> Prepare substrate according to effective standards and DTU requirements (DTU 59-1). Apply 1-2 coats of GORI 22 (200 g/m<sup>2</sup>) on all sides and joints of wood. Apply 1 coat of pigmented GORI 44. Apply 2 coats of pigmented GORI 88 - 120 g/m<sup>2</sup> per coat.</p> <p><u>Wood attacked by fungi/mould:</u> Prepare substrate according to effective standards and DTU requirements (DTU 59-1). Sand, rough-grind, brush and dust substrate until timber has "open pores" (remove all non-adhesive particles). Apply 2-3 coats of GORI 22 (200 g/m<sup>2</sup>) on all sides and joints of wood. Apply 1 coat of pigmented GORI 44. Apply 2 coats of pigmented GORI 88 - 120 g/m<sup>2</sup> for each of the 3 coats.</p> <p><u>Varnished &amp; Painted Wood or Wood with Decayed Stain Coating:</u> Prepare substrate according to effective standards and DTU requirements (DTU 59-1). Sand, rough-grind, brush and dust substrate until timber has "open pores" (remove all non-adhesive particles). Apply 2-3 coats of GORI 22 (200 g/m<sup>2</sup>) on all sides and joints of wood. Apply 1 coat of pigmented GORI 44. Apply 2 coats of pigmented GORI 88. 120 g/m<sup>2</sup> per coat.</p> <p><u>Renovation of previously treated wood:</u> Normally maintenance is required every 2-3 years depending on substrate condition. Prepare substrate according to effective</p>

standards and DTU requirements (DTU 59-1). Sand, clean and dust substrate as required depending on substrate condition. Apply 1 coat of pigmented GORI 44 - 40 g/m<sup>2</sup>.

Oily Wood = Exotic Wood: Use acetone or trichloroethylene to degrease substrate. Apply first coat of GORI 44 without diluting or, in some cases, one first coat of GORI 88 diluted with white spirit (30%).

Hard acidic wood: (= Exotic, non-coniferous, resinous): Clean using a solvent, or scrape off exudates or resin excess.

Resinous woods: Apply fungicide treatment (anti-blueing) before applying finish. The acidic level of certain woods may alter finish durability (Western Red Cedar). The surface should be prepared according to "all rules of the art" applicable to such wood species, using "against the fibre or coarse grain" treatments (smoothing, sanding).

Iroko and Western Red Cedar: Please contact us.

## Treatment

Read label and instruction before using the product. Stir content thoroughly before application and stir again during application. Apply on dry, non-frozen, frost free wood. Wood moisture should not exceed 18%. Wood must be clean and prepared according to effective standards and DTU requirements. For optimal drying, temperatures above 5°C and relative humidity below 50% are needed. Apply carefully with brush or roller along wood grain. Apply 3 coats. To ensure improved penetration and finish, sanding with a 220-240 abrasive product between coats, is recommended.

## Maintenance

The surface must be inspected regularly and repaired with GORI 44 as required. Colourless must never be used as topcoat alone. When carrying out maintenance of translucent colours, colourless can be mixed with toned colours in scale 1:1 to avoid a darker shade of the wood, than the one originally applied.

According to DTU 59-1: "Wood contains colouring extracts that may exude and produce stains, particularly in facades highly exposed to rain, degrading the finish product".

According to DTU 41-2 (NFP 65-210-1): In the case of outdoor wood finishing products, it is necessary to ensure treatments applied previously are compatible with such finishing products.

Standard FTP 74-201-1 and 2 (DTU 59-1): Sets forth that the selection of an adequate finishing system depends on the substrate, and on the defects and characteristics of certain wood species.

In case of application on wood glued through alkaline joints (phenolic adhesive etc.) and exposed to humidity, there is a risk of soda migrating to the surface, which may cause a Whitish efflorescence, when in contact with the GORI product. This risk applies, above all, to certain types of plywood used outdoor. In this case, wash surfaces using a sponge as soon as efflorescence appears.

<b>Application method</b>	Apply with brush or roller. Immersion: contact our technical department. Avoid application in direct sunlight. During application and drying, the temperature must be above 5°C and relative humidity below 80%.
<b>Thinning</b>	White spirit.
<b>Cleaning of tools</b>	White spirit.
<b>General</b>	Mix different batches in order to avoid variations in colour and gloss. Close can firmly after use. System durability presupposes adequate previous treatment.

## TECHNICAL PRODUCT DESCRIPTION

<b>Odour</b>	Strong.
<b>Coverage</b>	Raw wood: 5-7 m <sup>2</sup> /l. Planed wood: 10-12 m <sup>2</sup> /l, depending on the substrate. Coverage varies according to wood porosity, condition of surface, wood species and cut structure and direction.
<b>Drying time</b>	<u>Touch dry</u> : 3-5 hours. <u>Recoatable</u> : App. 12-24 hours. Measured at 23°C and normal humidity (60%). Deviations may occur by changes in temperature, humidity and thickness of coats.
<b>Shelf life</b>	5 years in unopened container. Limited shelf life after opening.
<b>Storage</b>	Store and transport frost free in tightly closed container. Store in a dry and cool area away from direct sunlight.

## TECHNICAL DATA

<b>Product type</b>	GORI 44 is a solvent based, weather and water resistant, low-build wood protection for outdoor use. GORI 44 is resistant to fungal growth and enhances the natural structure of wood with a matt, translucent finish.
<b>Density</b>	0.85 ± 0.02 g/m <sup>3</sup> at 20°C.
<b>Flash point</b>	>55°C (Class III).
<b>Viscosity</b>	13 sec. at 20°C in Ford cup No. 4.

**Solid content** 28.8 W/W% - 24.3 v/v% - depending on colour.

**Gloss** Matt.

## COMPOSITION

**Binder** Alkyd resin.

**Pigments** Transparent iron oxide.

**Solvent** Aliphatic hydrocarbons.

**Active ingredients** Diclofluanide.

## SAFETY AND ENVIRONMENT

**General** Common safety rules for work with paints and varnishes must be observed. Further information is available from our safety data sheet on [www.gori.com](http://www.gori.com).

**Disposal** Do not empty into drains or into the environment. Product waste must not be poured into sewers, water reserves or soil. Left over product should be handed in at your local waste disposal. Empty can be recycled (check with your local waste disposal site or your local authorities).

## ADDITIONAL INFORMATION

**Wood species** Western Red Cedar, Alaska Yellow Cedar, Larch and similar types of wood contain tannin, which may repel coating and/or staining. Please make a test on a small area before treating, and check the final result.

Please also note that all softwood may retract or swell up till 12 %. No film can adapt to this kind of movement and therefore a maximum of 18 % humidity is the limit for applying treatment.

Iroko, Teak, Rubberwood and some other wood species contain "oil", which may delay drying and thereby give an uneven surface after application. You can try cleaning the surface with cellulose thinner and then sand with grit 220. Test a small area

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afterwards with application. However, we stress that there is no guarantee for a satisfactory result.

Ipe turns grey after coating with decking oils, but by power washing after coating is worn out you may return to original colour.

As wood is an organic material, there is no guarantee that the same wood species will react the same way in different areas, when treated/coated/stained. For more information and safety data sheets: [www.gori.com](http://www.gori.com).

*The purpose of this Technical Data Sheet is to provide our clients with information about the properties and characteristics of the product. The information provided, is based on tests conducted by us under usage conditions that comply with the prevailing standards. Our recommendations for use are for information only, and in no event shall they take precedence over any specific recommendation taking into account the nature and conditions of a particular site, nor shall they engage PPG's liability. Before all applications of the product, clients should check that this document has not been amended by a more recent version, which takes into account new technical data. This version annuls and replaces all previous versions of Technical Data Sheets relating to this product. Technical Data Sheets can be downloaded from [www.gori.com](http://www.gori.com).*

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