

## DuroGrit

PROTECTS ALL EXTERIOR WOOD IN ONE SINGLE COAT, FOR MAXIMUM UV PROTECTION AND A NATURAL LOOK.



DuroGrit is a sustainable, wood fibre fortified and water-soluble oil that colours and protects all exterior wood in 1 single layer. The FibreGrit Technology, where added wood fibres give the oil its unique structure, provides the perfect combination between a saturating and a breathable mono-coat system.

Thanks to this technology, the product does not only have an incredible and long-lasting UV protection compared to other exterior wood finishing products, but it's also extremely durable and wear resistant.

### PRODUCT INFORMATION

#### BENEFITS

- ✓ **PATENTED FIBREGIT TECHNOLOGY**  
Innovative technology with cellulose wood fibres for the most durable wood protection
- ✓ **PROVEN 1-LAYER TECHNOLOGY**  
Breathing and saturating mono-coat system, the best of both worlds ■ 0% VOC
- ✓ **TOMORROW'S UV RESISTANCE**  
FibreGrit Technology allows for significantly more UV blockers ■ High quality projects with a prolonged natural look and no greying surfaces
- ✓ **TOUGH MECHANICAL PROTECTION**  
Water and dirt repellent ■ Open pores prevent cracking and peeling off, when preparation is done well.
- ✓ **FOR ALL EXTERIOR WOOD**  
Suitable for most wood types with the correct preparation and colour choice ■ Only one product needed for all applications ■ Residential & public use (playgrounds, terraces, fencing, ...)

#### TECHNICAL DATA

|                            |                                                                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical state at 20°C     | Liquid                                                                                                                                                                |
| Odour                      | Oily                                                                                                                                                                  |
| Density                    | 0.9 kg – 1.1 kg/L                                                                                                                                                     |
| VOC content                | 0 g/L                                                                                                                                                                 |
| Drying time                | 1-3 hours at 20 °C (68 °F)                                                                                                                                            |
| Curing time                | 3 days at 20 °C (68 °F)                                                                                                                                               |
| Application information    | All vertical and horizontal wooden surfaces outdoors (cladding, decking/terraces, garden furniture, ...)                                                              |
| Consumption                | 8 to 15 m <sup>2</sup> /L *<br>Usages are merely indicative. Wood type, sanding and preparation impact the final result.                                              |
| Working temperature        | 10 to 30 °C (50 to 86 °F) (we recommend not applying in hot sunny conditions – see application guide)                                                                 |
| Humidity application range | <70%                                                                                                                                                                  |
| Wood humidity              | Min. 12% - 16% (when the wood is not dry enough, the oil can't penetrate, resulting in less protection and risk of flaking off in the future – see application guide) |
| Storage                    | Min. +5 °C, max. +25 °C<br>Frost-free                                                                                                                                 |
| Shelf life                 | 24 months<br>Min. +5 °C, max. +25 °C<br>Frost-free                                                                                                                    |
| Cleaning of tools          | Clean tools and equipment immediately after each use with Exterior Wood Cleaner and water.                                                                            |
| Disposal                   | Dispose of residue and empty packaging in accordance with local ordinances                                                                                            |

\* Standard spread rate is 8-15 m<sup>2</sup>/litre, however consumption can vary a lot depending on your type of wood, weathering and preparation. Old wood, wood that has been left untreated outdoors or grooved wood often absorbs more product. Therefore, always purchase slightly more product than for the recommended litre per m<sup>2</sup>. You can use the leftover to maintain and touch up the surface with the same product.

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### CERTIFICATES



**LIABILITY:** It is the user's responsibility to establish, through his own tests, whether the product is suitable for the chosen application. In no case can Muylle Facon NV be held liable for any consequential damage. The information above may be subject to changes, which will be published in the updated versions of the technical data sheet and application guide. We cannot be held liable for poor results due to causes that are not related to the quality of the product. This technical information has been drawn up based on the currently available information and knowledge. The most recent technical data sheets can be requested or are available online.

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## APPLICATION GUIDE

### CHECKPOINTS & PREPARATION

#### 1. COLOUR CHOICE

For optimal results, we recommend applying a DuroGrit colour as close to the natural wet appearance as possible. Wet the wood to be treated and find the closest match to the wet appearance within the DuroGrit colour range. Choosing a lighter colour than the natural wet look may reduce the longevity of the protection. Darker colours offer better durability.

→ See Annex 1 - Colour Selection Guide for more guidance.

#### 2. TYPE OF WOOD

The size of the pores and the amount of extractives in the wood influence the penetration of the oil in the wood. Understanding if your wood is a **softwood**, **hardwood** or a **modified wood**, is a good basis for the application instructions.

→ See Annex 2 - Wood Type Impact on Oil Penetration

#### 3. STATUS OF THE WOOD

The status of the wood has an important impact on preparation and application advice. Before application, check if the surface you want to oil is **untreated** wood, **previously treated** (with a stain, oil or paint) or **weathered** wood exposed to the elements with a silver-grey patina.

→ See Annex 3 - Weathered Grey Wood to learn more about weathered woods

### WOOD PREPARATION

#### TWO GOALS TO PREPARE THE WOOD CORRECTLY BEFORE APPLICATION

##### GOAL 1 - OPEN PORES

Oil must bond with wood fibres, not sit on top

##### GOAL 2 - REMOVE EXTRACTIVES

Tannins & natural wood oils in hardwood block penetration

#### WOOD TYPE

| STATUS OF WOOD                                                                                                                                    | SOFTWOOD                                                                                                                                                                                                                                                                         | HARDWOOD                                                                                                                                                                                                                                                                        | MODIFIED WOOD                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>New / Untreated</b>                                                                                                                            | <b>Let weather during 2-4 weeks</b><br>✓ Clean with Exterior Wood Cleaner.<br>✓ Use a stiff bristled nylon brush and rinse thoroughly with water<br><br><b>No time to weather?</b><br>Sand to <b>grit 100</b> — to open pores and remove extractives with Exterior Wood Cleaner. | <b>Let weather during 4-6 weeks</b><br>✓ Clean with Exterior Wood Cleaner.<br>✓ Use a stiff bristled nylon brush and rinse thoroughly with water<br><br><b>No time to weather?</b><br>Sand to <b>grit 80</b> — to open pores and remove extractives with Exterior Wood Cleaner. | <b>Let weather during 2-4 weeks</b><br>✓ Clean with Exterior Wood Cleaner.<br>✓ Use a stiff bristled nylon brush and rinse thoroughly with water<br><br><b>No time to weather?</b><br>Sand to <b>grit 100</b> — to open pores and remove extractives with Exterior Wood Cleaner. |
| <b>Weathered / Grey</b><br><i>No adhesion possible until the broken lignin layer on top of the wood is removed.</i>                               | <b>Clean with Exterior Wood Cleaner.</b> Brush off all loose fibres with a stiff bristled nylon brush and rinse thoroughly.<br><br><b>Horizontal surfaces or surfaces with uneven greying:</b>                                                                                   |                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                   | We recommend sanding to <b>grit 100</b> to avoid colour differences and flaking off                                                                                                                                                                                              | We recommend sanding to <b>grit 80</b> to avoid colour differences and flaking off                                                                                                                                                                                              | We recommend sanding to <b>grit 100</b> to avoid colour differences and flaking off                                                                                                                                                                                              |
| <b>Previously treated</b><br><i>Fully remove the old product. If previously treated with DuroGrit, see maintenance part in application guide.</i> | ✓ Sand the wood to <b>grit 100</b><br>✓ Clean the surface to remove dust.                                                                                                                                                                                                        | ✓ Sand the wood to max <b>grit 80</b><br>✓ Clean with Exterior Wood Cleaner and rinse thoroughly.                                                                                                                                                                               | ✓ Sand the wood to <b>grit 100</b><br>✓ Clean the surface to remove dust.                                                                                                                                                                                                        |

**WATER TEST:** After the surface preparation (sanding or Exterior Wood Cleaner), allow the wood to thoroughly dry. To test readiness, **sprinkle a few drops of water on the wood. The water should soak in within a few seconds.** If it doesn't, do not apply the finish, as the wood is either not dry enough or not porous enough to accept the finish correctly.

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### APPLICATION GUIDE *CONTINUED*

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|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| APPLICATION - BRUSH    | <ol style="list-style-type: none"> <li><b>1. Stir the product thoroughly</b> for a few minutes before use. When using several containers at one site, it is recommended to mix them for an even result.</li> <li><b>2. Apply a generous coat</b> of DuroGrit and distribute evenly to the surface using a high-quality, firm bristle paintbrush suitable for waterborne coatings. A hybrid brush (mix of natural and synthetic bristles) is recommended for best results.</li> <li><b>3. Work in the direction of the wood installation</b>, ensuring to cover the full length of each deck board or cladding. For vertically installed boards, apply from top to bottom; for horizontally installed wood, apply from left to right (or vice versa).</li> <li><b>4. Work in small sections</b> approximately 1 or 2 boards wide.</li> <li><b>5. Avoid stopping in the middle of a board</b>; use natural breaks as boundaries to divide large areas into smaller, more manageable sections.</li> <li><b>6. Keep the leading edge wet.</b></li> <li><b>7. Allow to dry for approximately 3 hours.</b> Complete curing occurs after 3 days (at 20 °C/68 °F). For deck stain applications, allow 3 hours for light foot traffic under normal weather conditions, but wait 3 days before replacing furniture and resuming normal use. Do not cover and do not place heavy objects on the surface until it is completely cured.</li> <li><b>8.</b> Note that low temperatures, poor ventilation, and high relative humidity significantly prolong the drying and curing process.</li> </ol> <p><b>DuroGrit should generally always be applied in an outdoor environment</b> and never indoors, as this will prolong the drying times (except if above requirements can be met).</p> <div> <p><b>PRO-TIP FOR A SMOOTH FINISH WITH DUROGRIT</b></p> <p><b>Apply Generously for Best Results.</b> When applying DuroGrit, ensure you use a generous amount of product. Insufficient application can cause the oil to dry too quickly, resulting in more visible brush marks and noticeable start/stop lines. Using more product extends the working time, reducing sensitivity to overlaps and improving the overall flow. This approach leads to a smoother finish with fewer brush marks.</p> </div> |
| APPLICATION - SPRAY    | <ul style="list-style-type: none"> <li>✓ <b>DuroGrit can also be applied via spraying methods</b> such as HVLP, Airless, or Airmix. Back brushing is not required.</li> <li>✓ Use the <b>standard DuroGrit</b> version for application outdoors (brush and manual spray application). Use the <b>Industrial DuroGrit</b> version for application indoors (spraycoaters, vacuum coater applications or manual spraying in indoor environments). Consult the TDS for Industrial DuroGrit and contact our Technical Service Team before use.</li> <li>✓ <b>Dilution is typically not necessary.</b> However, for the colours of the Great Plains Collection, adding 20% of water will ensure a more uniform spray pattern and make spraying easier. The colours of the Salt Lake Collection are more covering and usually don't require dilution. Keep in mind if you dilute, that the final coating grammage must then also be higher.</li> <li>✓ <b>Avoid spraying on windy or breezy days</b> to prevent overspray from reaching nearby structures, vehicles, windows, stonework, or furniture, as it can be challenging to remove if not addressed promptly. Consider waiting for calmer weather conditions.</li> <li>✓ <b>Use cardboard or spray shields</b> to help manage overspray.</li> <li>✓ <b>When using an airless sprayer:</b> select fine finish tips between 010 (0.010") and 012 (0.012").</li> <li>✓ <b>Use the lowest pressure that achieves a uniform spray pattern</b> to minimise fogging and overspray (typically between 50 to 120 bar). Adjust pressure as needed.</li> <li>✓ <b>Utilise filters between 50-100 mesh.</b></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| INDUSTRIAL APPLICATION | <p>If you want to apply this product inside your workshop, we advise you to <b>get in contact with our Technical Service Team</b> or consult the Industrial Durogrit TDS and application guide.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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### CLEANING & MAINTENANCE

#### CLEANING

Regular cleaning, to remove dirt or green deposits, can be done with **All Natural Wood Cleaner**. After winter and after summer, we recommend cleaning with **Exterior Soap**.

**Do not use any other cleaning products** or detergents as these might affect the protection!

#### MAINTENANCE

**In general we recommend a yearly visual check-up just after winter season.**

✓ **If colours fade evenly and the wood is not greyed:**

First clean the wood with Exterior Wood Cleaner, then apply a layer of DuroGrit in the original colour. Depending on the degree of fading, dilute DuroGrit with a maximum of 20% water to avoid applying too much product and making the colour too opaque.

✓ **If the colours fade unevenly or the wood is greyed:**

Sand the surface and re-apply DuroGrit.

The **frequency of maintenance** depends on the weather conditions, exposure, geographical situation, solar orientation, wood type (softwood vs hardwood) and colour. In normal weather conditions:

- ✓ **Vertical surfaces:** up to 5 years
- ✓ **Horizontal surfaces:** up to 2 years

If you choose a colour that is lighter than the wet look of your wood, then the frequency of maintenance will be higher. See Annex 1 - Colour Selection Guide.

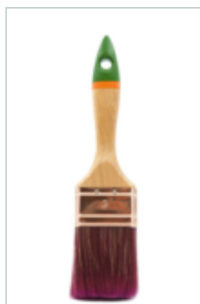
#### TIPS & TRICKS

- ✓ Before starting application, test your colour choice on a small area. Allow to dry to determine a final colour.
- ✓ Only apply DuroGrit between 10 °C (50 °F) and 30 °C (86 °F) and in dry weather conditions.
- ✓ Avoid application in direct sunlight or to hot surfaces. The product might dry too fast and there is a risk of peeling off later.
- ✓ Avoid application of DuroGrit when rain is expected within 10 hours of application.
- ✓ If needed, tape off anything that should not be treated, splashed or spilled on, or anything sensitive to overlaps.

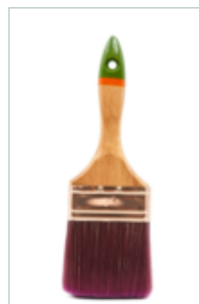
#### TOOLS



Soft, synthetic brush  
for water-based  
products -  
35 mm / 1,5 inch



Soft, synthetic brush  
for water-based  
products -  
50 mm / 2 inch



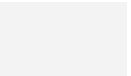
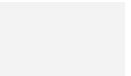
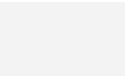
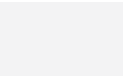
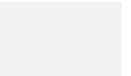
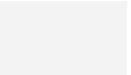
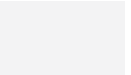
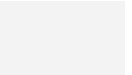
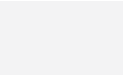
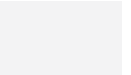
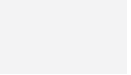
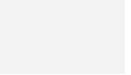
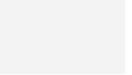
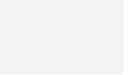
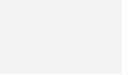
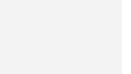
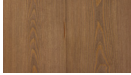
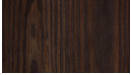
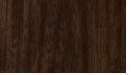
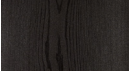
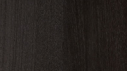
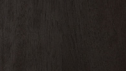
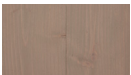
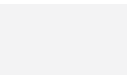
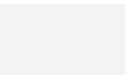
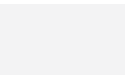
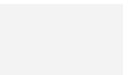
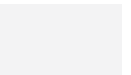
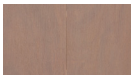
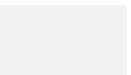
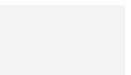
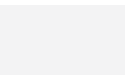
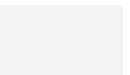
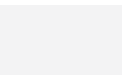
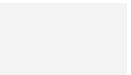
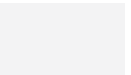
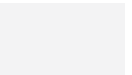
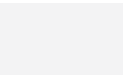
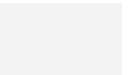
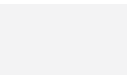
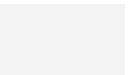
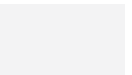
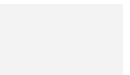
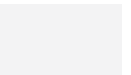
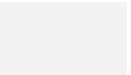
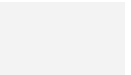
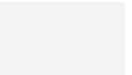
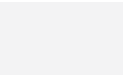
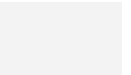
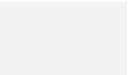
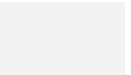
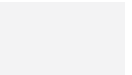
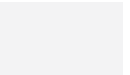
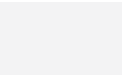
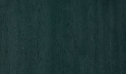
Soft, synthetic brush  
for water-based  
products -  
75 mm / 3 inch

## DuroGrit

PROTECTS ALL EXTERIOR WOOD IN ONE SINGLE COAT, FOR MAXIMUM UV PROTECTION AND A NATURAL LOOK.

### ANNEX 1: COLOUR SELECTION GUIDE

For optimal results, we recommend applying a DuroGrit colour as close to the natural wet appearance as possible. Wet the wood to be treated and compare its colour to the fan to find the closest match to the wet appearance. Choosing a lighter colour than the natural wet look may reduce the longevity of the protection. Darker colours offer better durability.

|                                    | PINE                                                                                | DOUGLAS                                                                             | LARCH                                                                               | TEAK                                                                                | IROKO                                                                                | IPÉ                                                                                   | THERMO PINE                                                                           | CUMARU                                                                                |
|------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>THE GREAT PLAINS COLLECTION</b> |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
| LIGHT SAND                         |    |    |    |    |    |    |    |    |
| PRAIRIE DUST                       |    |    |    |    |    |    |    |    |
| GRASSLAND BEIGE                    |    |    |    |    |    |    |    |    |
| FOXY BROWN                         |   |   |   |   |   |   |   |   |
| ROCKY UMBER                        |  |  |  |  |  |  |  |  |
| STEPPE LOOK                        |  |  |  |  |  |  |  |  |
| BISON BROWN                        |  |  |  |  |  |  |  |  |
| CHARRED BLACK                      |  |  |  |  |  |  |  |  |
| SADDLE BLACK                       |  |  |  |  |  |  |  |  |
| <b>THE SALT LAKES COLLECTION</b>   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
| SUTTON GREY                        |  |  |  |  |  |  |  |  |
| ATACAMA GREY                       |  |  |  |  |  |  |  |  |
| TUZ WHITE                          |  |  |  |  |  |  |  |  |
| UTAH PINK                          |  |  |  |  |  |  |  |  |
| SALINAS BLUE                       |  |  |  |  |  |  |  |  |
| SALT LAKE GREEN                    |  |  |  |  |  |  |  |  |
| RUBIO MONOCOAT GREEN               |  |  |  |  |  |  |  |  |

## DuroGrit

PROTECTS ALL EXTERIOR WOOD IN ONE SINGLE COAT, FOR MAXIMUM UV PROTECTION AND A NATURAL LOOK.

### ANNEX 1: COLOUR SELECTION GUIDE *CONTINUED*

#### COLOUR SELECTION NOTES

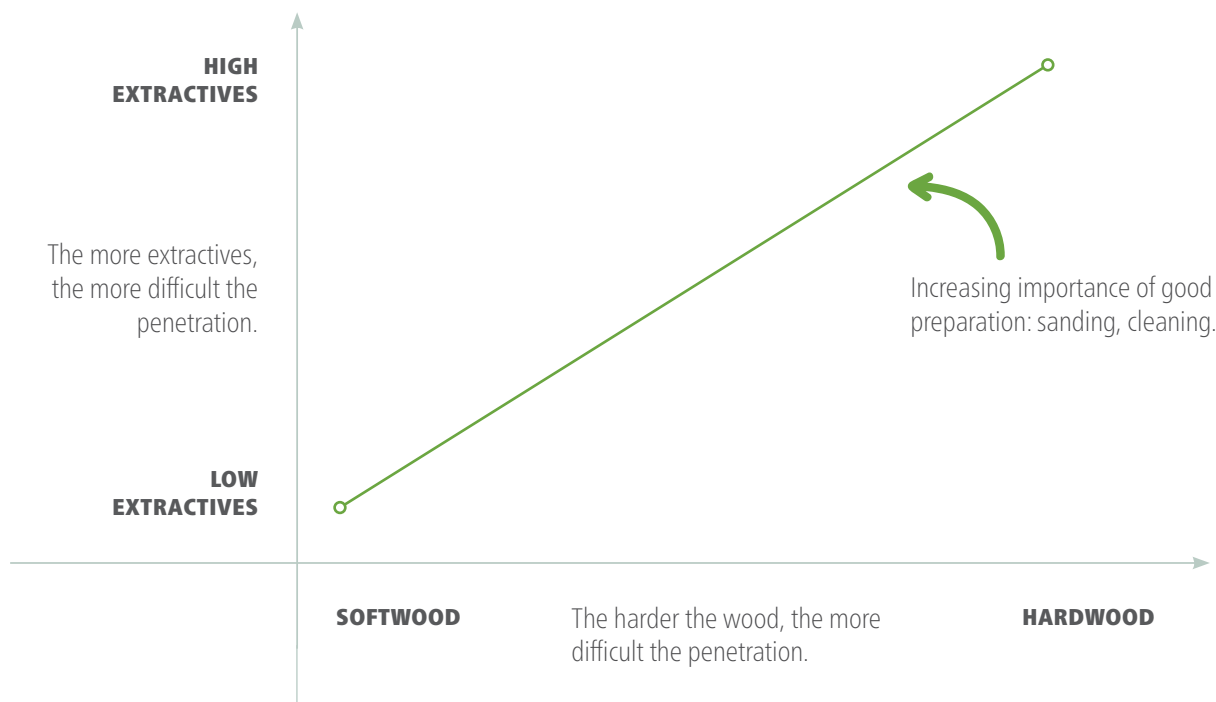
- ✓ If you aim to create a look that significantly contrasts with the natural wet look of the wood (either much darker or much lighter), scratches may become more noticeable due to this contrast. This is particularly likely to occur on decking.
- ✓ Thermally modified wood is extremely sensitive to colour change due to exposure to UV light. For these wood types we recommend only using a dark colour ("Foxy Brown" or darker are especially developed for Thermowood).
- ✓ Note: "Bison Brown" is not recommended for wood species with a light look.
- ✓ We advise to use the white and pastel colours on softwood only.
- ✓ We do not recommend mixing DuroGrit colours. These new combinations may not provide the same durable protection as our standard colours and may fade more quickly. Since these mixtures have not been tested in our laboratory for durability, we cannot guarantee their performance.
- ✓ To determine the desired colour, always do a small test first with one of our samples on identically sanded and prepared wood.

## DuroGrit

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### ANNEX 2: IMPACT OF WOOD TYPE ON OIL PENETRATION

The size of the pores and the amount of extractives in the wood influence the penetration of the oil in the wood. Understanding if your wood is a softwood, hardwood or a modified wood, is a good basis for the application instructions.



**SOFTWOOD:** open-grained conifers – Pine, Douglas, Larch, Spruce. High absorbency means rich, warm colour results. Pastel and earth tones perform particularly well.

**HARDWOOD:** dense deciduous and tropical species – Oak, Teak, Iroko, Ipé and more. Tighter grain and extractives require careful preparation. Colour results are deep and rich.

**MODIFIED WOOD:** thermally or chemically modified species – Thermo Modified Pine, Ash, Accoya. Reduced extractives and high stability give consistent, even colour.

**NOTE – MAINTENANCE & HARDWOOD:** Extractive tannin bleed is not caused by the coating and does not indicate coating failure. Tannin-containing woods, such as oak, chestnut, redwood, red cedar, mahogany, Douglas fir, etc., naturally contain tannic acid, which can migrate to the surface and cause discolouration of the finish. This discolouration is typically harmless and can often be removed by cleaning with Tannin Remover. Apply the remover to the affected area, let it sit for a few minutes, and then thoroughly rinse with clean water.

## DuroGrit

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### ANNEX 3: WEATHERED GREYED WOOD

The grey layer in weathered wood consists of **broken-down lignin**, the substance that makes wood hard and strong. UV light and rain cause this lignin to break down. **As a result, it loses its strength, becomes powdery and no longer adheres properly to the healthy wood beneath.**

You can actually compare this layer to a coating, but one of poor quality. It **protects the wood from UV rays but not from moisture, mould and cracks.** This is a natural sacrificial layer formed by the wood to protect the underlying healthy wood for as long as possible.

Knowing that weathering is a poorly adhering “protective” layer, it stands to reason that an oil or any other coating will not work well on the weathered surface.

Just as paint applied over a dusty or chalky wall will peel away because it lacks adhesion, **any oil or coating applied to this weathered wood “layer” will form a film on the weathered surface that will consequently not adhere and flake off.**

For an oil such as DuroGrit, it’s essential that it can bond with the pores of the wood. However, the weathered surface acts as a coating and will prevent this, forming a barrier between the healthy wood and the oil. **The oil cannot bond.** Instead, it adheres to the broken-down lignin, which oxidises and polymerises, thus forming a thin film.

Since the film adheres to a layer that has no adhesion of its own, moisture penetrates beneath the film, UV light further breaks it down, and **the film loses its adhesion to finally flake and peel off.**

**In conclusion, it is not the oil or DuroGrit that is coming away from the wood; it is the weathered layer that is coming away, with the oil on top.**

## DuroGrit

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### ANNEX 4: MODIFIED WOOD & WATER-BASED EXTERIOR COATINGS (OILS / WAXES)

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WHAT ARE MODIFIED WOODS?                 | <p>Modified wood refers to timber that has been chemically or thermally altered to improve durability, dimensional stability, and resistance to moisture and biological attack.</p> <p><b>1. Thermally Modified Wood (Thermowood)</b></p> <ul style="list-style-type: none"> <li>✓ Produced by heating wood to 160–220°C in low-oxygen conditions.</li> <li>✓ Reduced hygroscopicity and fewer hydroxyl groups.</li> <li>✓ More hydrophobic and dimensionally stable.</li> </ul> <p><b>2. Acetylated Wood (Accoya®)</b></p> <ul style="list-style-type: none"> <li>✓ Produced by reacting wood with acetic anhydride.</li> <li>✓ Very high dimensional stability and low water uptake.</li> <li>✓ Highly hydrophobic and chemically modified surface.</li> </ul>                                                                                  |
| KEY SURFACE CHANGES                      | <ul style="list-style-type: none"> <li>✓ Lower surface polarity</li> <li>✓ Higher contact angle (poor surface penetrability)</li> <li>✓ Reduced porosity and fewer bonding sites</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CHALLENGES WITH WATER-BASED OILS & WAXES | <p><b>1. Poor Wetting</b></p> <ul style="list-style-type: none"> <li>✓ Hydrophobic surface reduces spreading</li> <li>✓ Risk of uneven coating</li> </ul> <p><b>2. Limited Penetration</b></p> <ul style="list-style-type: none"> <li>✓ Coatings stay more on surface</li> <li>✓ Less mechanical anchoring</li> </ul> <p><b>3. Reduced Adhesion</b></p> <ul style="list-style-type: none"> <li>✓ Fewer bonding sites and lower surface energy</li> <li>✓ Increased risk of peeling or flaking</li> </ul> <p><b>4. Drying Behaviour</b></p> <ul style="list-style-type: none"> <li>✓ Slower drying due to reduced absorption</li> </ul> <p><b>5. Weathering</b></p> <ul style="list-style-type: none"> <li>✓ <b>Positive:</b> less cracking due to dimensional stability</li> <li>✓ <b>Negative:</b> faster erosion of surface coatings</li> </ul> |
| PRACTICAL RECOMMENDATIONS                | <p><b>Surface preparation</b></p> <ul style="list-style-type: none"> <li>✓ <b>Sanding improves adhesion.</b></li> </ul> <p>No prep, no glory: check our preparation advice.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| SUMMARY                                  | <p>Modified wood offers durability and stability, but hydrophobic surfaces reduce wetting, penetration and adhesion of water-based oils and waxes.</p> <p><b>A proper preparation is essential for good exterior performance.</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## DuroGrit

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### ANNEX 5: WHEN & HOW TO DILUTE DUROGRIT

Only dilute with water or Open Time Extender to adjust open time or characteristics.

Never add other paints, stains or solvents.

|                                                     |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Very rough / weathered, highly absorbent wood types | Up to <b>20%</b> water              | If the oil soaks in quickly and the wood seems thirsty, dilute with 20% water. This will help to control the spread rate. In exceptional cases a second layer may be necessary for aesthetic reasons. The first coat acts as a primer, but due to the wood's high and uneven absorption, a second coat will ensure a more uniform colour result. In such situations we recommend diluting DuroGrit with 20% in both layers. |
| Decking application                                 | Up to <b>20%</b> water              | Adding 20% water for decking application can help improve spreadability.                                                                                                                                                                                                                                                                                                                                                    |
| Spray application                                   | Up to <b>20%</b> water              | Optional, to have a more uniform spray pattern.                                                                                                                                                                                                                                                                                                                                                                             |
| Maintenance coat                                    | Up to <b>24%</b> water              | Adding water when applying a maintenance coat prevents changing the original colour too much.                                                                                                                                                                                                                                                                                                                               |
| Hot temperatures                                    | Up to <b>10%</b> Open Time Extender | In very high temperatures (+30 °C/+86 °F), you can add 10% Open Time Extender to extend the open work time and prevent overlaps. Avoid using Open Time Extender in low temperatures, as this additive significantly prolongs the overall curing time.                                                                                                                                                                       |

**LIABILITY:** It is the user's responsibility to establish, through his own tests, whether the product is suitable for the chosen application. In no case can Muylle Facon NV be held liable for any consequential damage. The information above may be subject to changes, which will be published in the updated versions of the technical data sheet and application guide. We cannot be held liable for poor results due to causes that are not related to the quality of the product. This technical information has been drawn up based on the currently available information and knowledge. The most recent technical data sheets can be requested or are available online.