It can even be mixed in mixing systems, since the new colour concentrates feature good capabilities for dispensing, incorporation and colour tone stability.

Extended colour palette for coloured COLOR-SOLID-OIL GB 11252-(colour tone)

The high quality COLOR-SOLID-OIL range of pigmented oils (GB 11252-colour tone) is available in 9 new standard tones with immediate effect. Each product can be mixed together to create unique custom tones. Want something special, contemporary? Easy! By using our vibrant new colour concentrates even cheerful colour tones can be mixed. The only limit is your imagination.

This low-solvent natural oil consists of almost 98% renewable raw materials; it only contains 0.3 % solvent and is particularly fast drying. Most importantly this fast drying is achieved without the use of siccatives containing cobalt or lead. >>more on page 2
Dear reader!

In this issue of lacktuell, we are once again presenting you with lots of new solutions for surface design. We value individuality and facilitate your own creativity with diversity of design. That’s exactly what many of your customers expect these days. Nothing off the shelf; certainly not the drabness of what everybody has.

However, nor do we lose sight of what keeps you busy in your day-to-day life. Time is money! We would like to provide you with lots of options for speeding up your processes or fulfilling your client’s specific requirements, such as extreme scratch resistance or low solvent content.

In March, we presented many of our new products on our stand at the Nuremberg crafts exhibition as part of our interior design presentations. Practical and visually accessible.

We were able to make live presentations of our oils to the visitors to our stand. Many of our visitors were impressed by the design aspects of the Invipro Oil and the application-specific characteristics of the Speedcure Oil. Our most important exhibit was the exhibition stand itself. All of the walls were painted using Fantastic Color which is of really convincing quality.

We base our work on the motto: anyone can do small patterns, however we prove how user-friendly our products are using large-size, hand-painted mobile walls. Noone has ever been able to cheat with those, you have our word!

We would like to thank you for your visit and for your interest in our products and services. In addition to the many creative options for surface design, the standards which need to be fulfilled more and more frequently are part of our daily life. You will also find helpful information in the current edition on this. In addition: have you met our colour whisperer yet? No? Then take a look at our Youtube Channel.

Yours sincerely, Jens Hesse

---

Extended colour palette for coloured COLOR-SOLID-OIL GB 11252-(colour tone)

The finished surface is so resistant that it meets the requirements of DIN 68861 Part 1c or even 1b depending on the wood type and the number of coats applied. It naturally also meets the requirements of the latest EN 71-3 (Safety of children’s toys; 2017-10) and DIN 53160 (Parts 1 & 2; Resistance to saliva and perspiration).

This high quality colour oil range is therefore universally applicable in interior design. Even surfaces exposed to high mechanical and chemical demands can be appropriately tinted using these innovative natural oils.

Try this high quality system yourself and you will discover how easy it is to achieve a beautifully coloured oiled surface.

If you use the right oil!

The high-grade oil can also be hardened (optional), so its excellent protective effect can even be achieved with one coat where desired. And that with a low hardening of only 4 % compared to our competitors.

---

Order information
Order number:
GB 1125x(GL)-(colour tone)
Packaging sizes: 1 l, 2.5 l
Not everything that glistens is gold, or even silver or copper – at least not if you are looking at the new Metallic wiping stains from Hesse. The Hesse stain laboratory has succeeded once again in developing a beautiful new stain product: Metallic wiping stain. These wiping stains can be used to achieve fantastic effects on the widest variety of substrates.

Hesse Metallic wiping stain

As we all know, with wiping stains it is the structure of the substrate that plays an important role in obtaining the stain effect. The structure of the substrate ultimately determines the effect, whether the Metallic wiping stain is applied on pine or oak, on brushed or sand-blasted wood. The application method – application and removal – means that the wiping stain remains in the depressions of the carrier material, whereas it is removed from the raised structures. The three wiping stains can also be mixed together, or jointly combined on one workpiece.

Use of these new Metallic wiping stains is also not just limited to wood substrates. Even other carrier materials, such as slate veneer, could be an expressive substrate on which sophisticated designs can be realised.

Processing
Prepare the substrate as desired and then apply at least 2 coats of CN or PU colour or multicoat lacquer. Allow the final coat to dry for at least 16 h. Lacquer sanding of the surface is not required. Apply the wiping stain using a spray gun, brush or balled up cloth. Once dry, carefully rub down the surface of the wiping stain using steel wool or a sanding fleece so that the material only remains in the pores. Remove any remaining haze by sanding down with 400 grit. Then finish with a top coat of a lacquer from the same system.

Order information
Order number:
TD 4215-02211  Gold
TD 4215-02212  Kupfer / Copper
TD 4215-02213  Silber/ Silver

Packaging sizes: 1 l, 5 l, 25 l
With Hesse lacquers the spark does (not) ignite.

Lacquer products from Hesse offer optimum fire protection under current law – even beyond national borders.

Those selecting a furniture lacquer generally ask themselves lots of questions: do the lacquer’s optical and technical properties match customer requirements? And does the transparent or coloured product meet all necessary certifications including the much discussed fire protection?

The European DIN EN 13501 on flame retardancy* is increasingly being demanded in public tenders on top of the nationally valid certifications to DIN 4102 B1 (Germany), NF P 92-50X (France), BS 476 (United Kingdom) or ASTM E84 (USA). Whether domestically or abroad; such certification is frequently an initial prerequisite to obtaining an order.

The series of standards under DIN EN 13501 Part 1 classify construction products and building materials according to their fire behaviour. There is also a subdivision into construction material classes A1, A2 and B to F.

The following criteria are reviewed to assess fire behaviour.
> Flammability
> Combustibility
> Heat release rate
> Flame spread
> Burning droplets

This grouping of the European classes is augmented by the categories “non-flammable”, “flame resistant”, “normally inflammable” and “easily inflammable”.

Our technical hotline is also available for support and individual consultation.
Mr W. Harnos
Tel.: 02381-963846
w.harnos@hesse-lignal.de

<table>
<thead>
<tr>
<th>Building Authority name</th>
<th>Flammability classes under DIN EN 13501-1</th>
<th>Construction material classes under DIN 4102</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-flammable</td>
<td>A1, A2</td>
<td>A1, A2</td>
</tr>
<tr>
<td>Flame resistant</td>
<td>B, C</td>
<td>B1</td>
</tr>
<tr>
<td>Normally inflammable</td>
<td>D, E</td>
<td>B2</td>
</tr>
<tr>
<td>Easily inflammable</td>
<td>F</td>
<td>B3</td>
</tr>
</tbody>
</table>

**The following Hesse products have already been classified under DIN EN 13501:**

**HYDRO lacquers**
> Hesse HYDRO PUR PRIMO HDE 5400x(gloss level)  
> Hesse HYDRO Isolation primer HP 6645-9343  
> Hesse 2C HYDRO Pigment filler HDP 5640-9343  
> Hesse HYDRO PRO-COLOR HB 65285-(colour tone)  
> Hesse HYDRO-PUR Color HDB 54705-(colour tone)

**HYDRO-UV lacquer**
> Hesse HYDRO-UV Multicoat lacquer HUE 86052-0010

**PUR lacquers**
> Hesse MEGA-PUR DE 56x(gloss level)  
> Hesse PU Multicoat lacquer DE 4503x(gloss level)  
> Hesse PU Isolation primer HP 6645-9343  
> Hesse FANTASTIC-FILL DB 48885-(colour tone)  
> Hesse FANTASTIC-COLOR DB 42105-(colour tone)

You will achieve optimal worldwide fire protection for your Hesse surfaces in combination on tested carrier material.

More information on the tested combinations of the listed products can be found in the respective classification report on our website via the homepage search term DIN EN 13501 // Product search.

* The European classification system for fire protection was adopted in 2001 by the European Standardisation Committee (CEN) with the EN 13501 series of standards. It determines uniform, European-wide requirements for fire protection to enable free trade in construction products within Europe.
We have extended the colour palette of our oils to be able to supply even exclusive designer colour tones. We have therefore included 10 new colour concentrates in our programme.

These colour concentrates can be used to nuance both the OB 52832-(colour tone) and GB 11252-(colour tone) colour oil ranges. They are also suitable for tinting most colourless Hesse oils.

Mixing the predefined standard colour oils and the option of additional tinting using the new colour concentrates results in a multitude of exclusive and individual colour tones.

Powerful and vibrant colour tones can now be achieved in addition to the usual wood and similar colour tones.

So there are virtually no limits to colour tone diversity.

Precious woods will therefore not only be endurably protected, but their specific character will also be accentuated in colour thus highlighting the special significance of these fine woods.

Each surface will therefore become a unique and valuable product.

The new colour concentrates contain high-grade and especially light fast pigments. They are easy to dispense and simple to incorporate into the different oils.

They can be used in mixing machines. So even smaller quantities can be mixed quickly, economically and even on site if necessary.

They will also shortly become a component of the Paint Express system.

All colour concentrates naturally meet the requirements of EN 71-3 (Safety of children’s toys; Migration of elements; in the current version), and of DIN 53160 (Parts 1 & 2; Resistance to saliva and perspiration). They can therefore be used as oils to colour even the surfaces of children’s toys or similar sensitive surfaces.

Make your own judgement on the colour diversity and uncomplicated application

<table>
<thead>
<tr>
<th>Order information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order number:</td>
</tr>
<tr>
<td>Packaging sizes:</td>
</tr>
</tbody>
</table>
EBH system for developing coatings on laminates or doors

Hesse has now installed and commissioned a system for electron beam hardening (EBH) to improve our response to the requirements of customers from the laminate or door industry.

Electron beam hardening, like UV curing, is one of the beam hardening procedures. The familiar UV curing uses UV light to split photoinitiators, which causes curing of the lacquer in a radical chain reaction.

Alternative hardening procedures are advisable, since UV rays only have a low penetration depth and photoinitiators can have undesirable side effects. Coloured UV lacquer structures must frequently be built up in complex multiple coats, in part due to the low penetration depth.

Electron beam hardening now avoids these disadvantages. It affords a greater penetration depth and above all it does not require photoinitiators.

Although operation of these systems is more complex compared to the relatively straightforward UV curing systems. The acceleration of electrons results in x-rays as bremsstrahlung. These naturally have to be screened and the usual requirements of the X-Ray Ordinance (RöV) apply.
Green Building Dubai – Extension of the product range

Hesse is one of the few European coating suppliers certified under the rules of the Dubai Municipality. Hesse obtained certification by the DCL (Dubai Central Laboratory) in 2015.

The boom in construction in Dubai continues unabated. This includes an increased demand for wood coatings. The range of Green Building products has been significantly extended, since these volumes have to be met not only in terms of craftsmanship, but also industrially.

Whilst initially there were only aqueous products in the range, UV and polyurethane lacquers for enhanced applications have now been included in this range again.

They are easy to find at www.hesse-lignal.de using a product search under certificates. The full list can be obtained by downloading the Greenbuilding Scope file via one of the products found.

### S/N | PRODUCT DESCRIPTION | BRAND NAME | PRODUCT DETAILS
--- | --- | --- | ---
1 | Water base – One pack performance coating | Hesse HYDRO Isolating Filler (HP N445-2143) | VOC (GBRS limit is max. = 140 g/l); Heavy Metals: Cadmium, and Chromium (GBRS limit < 500 mg/kg); Arsenic, Mercury and Lead (GBRS limit < 100 mg/kg); Formaldehyde < 10.0 mg/kg
2 | Solvent base – One pack performance coating | * Hesse UV Multicoat Lacquer for Spraying (YUE 76059) | VOC (GBRS limit is max. = 500 g/l); Heavy Metals: Cadmium, and Chromium (GBRS limit < 500 mg/kg); Arsenic, Mercury and Lead (GBRS limit < 100 mg/kg)
3 | Water base – Two pack reactive performance | * Hesse HYDRO-PUR TOPCOAT (HDE 54304) | VOC (GBRS limit is max. = 140 g/l); Heavy Metals: Cadmium, and Chromium

---

The extension of the product range includes an increased demand for wood coatings. The range of Green Building products has been significantly extended, since these volumes have to be met not only in terms of craftsmanship, but also industrially.

Whilst initially there were only aqueous products in the range, UV and polyurethane lacquers for enhanced applications have now been included in this range again.

They are easy to find at www.hesse-lignal.de using a product search under certificates. The full list can be obtained by downloading the Greenbuilding Scope file via one of the products found.
Hesse COLOR READER

Do you know the situation from a customer conversation: having to choose colour tones at short notice to match a sample? For instance your customer would like a component to be coated in the colour of their carpet. The difficulty here is finding the right tone from a multitude of colour tone templates.

Hesse now has a very smart colour search device – the COLOR READER. It fits into every handbag or trouser pocket. The device measures the desired sample within 1 second; this equates to a time saving of over 90 % compared to conventional colour tone searches using colour cards. The data is then transmitted via Bluetooth to an Apple or Android smartphone. The app then searches through the Hesse database and the best match of colour tone is displayed on your smartphone with the Hesse product number.

The colour data is stored in the Hesse Cloud and currently contains around 5000 colour tones including RAL Classic, RAL Design and NCS S. The app also provides a timeline and the option of creating a file structure.

Hesse currently offers the COLOR READER as a small compact colour search device with very good measurement results at a recommended retail price of 279 euros plus VAT. It is a superb aid in finding colour card tones.

An informative and humorous video has been produced dealing with the use of the COLOUR READER. It can be found on the Hesse video channel at YouTube or via the Hesse website: www.hesse-lignal.de > COLOR READER. Or even directly via this QR code: