Optimum durability and long-lasting protection thanks to a perfect combination of substrate and coating: The Duraflex coating system fulfills the highest of quality expectations.
DURAFLEX TECHNOLOGY: OUTSTANDING COMBINATION OF WOOD AND COATING

The Sikkens Wood Coatings Duraflex coating system stands for durability through the best weather protection and also contributes towards your customers being completely satisfied with their wooden windows.

Optimum durability is achieved with the new Sikkens Wood Coatings Duraflex coating system. Thanks to the long term elasticity of the film – particularly needed in the case of temperature fluctuations – the product is optimally suited to the substrate. Innovative light stabilizers (in the translucent coatings) give the coating high and long-lasting protection against against UV radiation. The outstanding permeable properties of the film ensure an especially good moisture balance in the wood. Thanks to these properties the Duraflex coating system guarantees an extremely high weather resistance.

For opaque and translucent coating systems
With RUBBOL® WF 382 (semi matt) and RUBBOL® WF 387 (satin-gloss) as well as CETOL® WF 952 (semi matt) and CETOL® WF 957 (satin-gloss) for opaque and translucent coatings, Sikkens Wood Coatings offers a complete system with innovative Duraflex technology: The products can be used as mid and top coats.

At a glance:
• Long term elasticity particularly needed in case of temperature and moisture fluctuations
• Extreme resistance to the impact of extreme weathering
• Very good timber adhesion
• Optimum durability
• Ideal customization for the wood substrate
• High UV protection through innovative new light stabilizers
• Long-lasting effectiveness of UV light stabilizers
• Especially effective moisture protection through the film’s outstanding permeable properties
• High resistance to cracking

All products with Duraflex technology have the SKH-KOMO product certificate 33199 according to external tests by the SKH Institute in the Netherlands.

System benefits that impress:

Heat:
The wood releases its moisture and shrinks. The coating follows the movement without material stress.
PROVEN IN ENDURANCE TESTS

The high, long-lasting weather protection that the Duraflex technology provides the coating with has been proven by the weathering tests in the Q-Lab Weathering Research Service. In addition, the Fraunhofer Wilhelm-Klauditz-Institut für Holzforschung (WKI) has confirmed the very high elasticity of the coating.

Extreme weathering conditions
The Q-Lab, based in Homestead, southern Florida, is an internationally recognized centre for the testing of the endurance of coatings. Thanks to year-round
- intensive sunlight
- high temperatures,
- high air humidity and
- copious rainfall
the humid climate there offers the ideal prerequisite for making incredibly realistic predictions of the UV and weather resistance of products. And in the shortest space of time as one year of weathering in Florida is equivalent to that of 2.5-3 years in Central Europe.

The comparison of radiation intensity proves that Florida is rightly described as the Sunshine State: whilst the sun data in Miami in summer are very similar to those in Central Europe, there are significant differences in the sun intensity in the winter.

After 24 months of weathering in Florida – or the equivalent weathering period of fix to six years in Central Europe – the CETOL® WF 952/957 coating still looks as good as it did on the first day. Intermittent maintenance coating is therefore not necessary.

Coating structure with Duraflex after 24 months in Florida

Primer: CETOL® WP 566
Mid coat: CETOL® WM 675
Top coat: CETOL® WF 957 (2x)

0.00 0.50 1.00 1.50 2.00
Wave length nm
280 320 360 400 440 480 520 560 600 640 680 720 760 800
Radiation W/m²

www.q-lab.com

Comparison of sunlight

Miami summer
Europe summer
Miami winter
Europe winter

Coating structure with Duraflex after 24 months in Florida

Rain:
The ingressing moisture makes the wood swell. But the flexible coating expands and ensures a controlled release of moisture thanks to its special diffusion characteristics.

Hail:
Better impact strength reduces cracking.
Proven elasticity
Coatings for windows and doors made from wood should react to swelling and shrinking as well as other minor distortions of the wood without cracking. In accordance with guideline HO.03 for dimensionally stable wooden parts it should therefore show an elongation at break of more than 20 percent. According to elasticity measurements carried out by the Fraunhofer Wilhelm-Klauditz-Institut für Holzforschung (WKI), CETOL® WF 957 not only fulfills the HO.03 guideline and can therefore be recommended for wooden windows. With over 200 percent the coating even exhibits an above-average elongation at break.

Extreme sun:
The UV light is absorbed by the coating. Wood and coating remain undamaged.

Frost & snow:
Even at low temperatures the coating remains elastic and ensures that diffusion is possible for a regulated moisture equilibrium.
**TECHNICAL DATA**

**RUBBOL® WF 382**
- Extremely weather resistant mid and top coats for dimensionally stable and semi-stable wooden components
- **Type of binder:** Pure acrylic
- **Gloss level:** Semi matt
- **Processing:** Spray

**Product characteristics**
- Highly flexible binder
- Very good impact strength
- Early water-resistance

**Color**
- Pure white RAL 9010
- White similar to RAL 9016
- Color shades made from 4041 color concept, RAL and NCS

**Packsizes**
- RAL 9010: 20 litres
- RAL 9016: 20 litres/120 litres
- Base NO0: 4.9 litres/9.8 litres/19.6 litres
- Base W05: 5 litres/10 litres/20 litres

**RUBBOL® WF 387**
- Extremely weather resistant mid and top coats for dimensionally stable and semi-stable wooden components
- **Type of binder:** Pure acrylic
- **Gloss level:** Satin-gloss
- **Processing:** Spray

**Product characteristics**
- Highly flexible binder
- Very good impact strength
- Early water-resistance

**Color**
- Pure white RAL 9010
- White similar to RAL 9016
- Color shades made from 4041 color concept, RAL and NCS

**Packsizes**
- RAL 9010: 20 litres
- RAL 9016: 20 litres
- Base NO0: 4.9 litres/9.8 litres/19.6 litres
- Base W05: 5 litres/10 litres/20 litres

**CETOL® WF 952**
- Extremely weather resistant mid and top coats for dimensionally stable and semi-stable wooden components
- **Type of binder:** Pure acrylic
- **Gloss level:** Semi matt
- **Processing:** Spraying

**Product characteristics**
- High UV protection
- Highly flexible binder
- Very good impact strength
- Outstanding permeability properties

**Color**
- Sikkens Wood Coatings standard colors
- Joinery Color Classics

**Packsizes**
- 5 litres/20 litres

**CETOL® WF 957**
- Extremely weather resistant mid and top coats for dimensionally stable and semi-stable wooden components
- **Type of binder:** Pure acrylic
- **Gloss level:** Satin-gloss
- **Application:** Spraying

**Product characteristics**
- High UV protection
- Highly flexible binder
- Very good impact strength
- Outstanding permeability properties

**Color**
- Sikkens Wood Coatings standard colors
- Joinery Color Classics

**Packsizes**
- 5 litres/20 litres

---

**The optimum translucent coating structure for porous timber species (leaf woods)**

**Primer:** CETOL® WP 566

**Mid coat:** CETOL® WM 675 or CETOL® WM 680 (Ion-Lock-Technology)

**Top coat:** CETOL® WF 952 or CETOL® WF 957 (Duraflex technology)

The isolating and pore-filling properties of the Ion-Lock-Technology in combination with the weather resistant properties of the Duraflex technology as a top coat guarantee a protection of the highest quality!

Our technical data sheets and safety data sheets can be downloaded at: [www.sikkens-wood-coatings.com](http://www.sikkens-wood-coatings.com)
Passion for paint

AkzoNobel has a passion for paint. We’re experts in the proud craft of making paints and coatings, setting the standard in color and protection since 1792. Our world class portfolio of brands – including Dulux, International, Sikkens and Interpon – is trusted by customers around the globe. Headquartered in the Netherlands, we are active in over 150 countries and employ around 34,500 talented people who are passionate about delivering the high-performance products and services our customers expect.

For more information please visit www.akzonobel.com

Akzo Nobel Hilden GmbH
Düsseldorfer Straße 96-100
40721 Hilden
Germany
www.sikkens-wood-coatings.com

© 2019 Akzo Nobel N.V.
All rights reserved.