DURAFLEX TECHNOLOGY

sikkens
WOOD COATINGS

ELASTICITY FOR HIGH WEATHER-RESISTANCE

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.

Passion for wood

AkzoNobel

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**

33199

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:

Duraflex coating

Conventional coatings

Wood

Heat:

The wood releases its moisture and shrinks. The **coating follows** the movement without material stress.

WITH DURAFLEX

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.

www.q-lab.com

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.

Comparison of sunlight

Coating structure with Duraflex after 24 months in Florida

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

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.

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Frost & snow:

Even at **low temperatures** the **coating remains elastic** and ensures that **diffusion is possible** for a regulated moisture equilibrium.

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For the highest expectations

A consistent quality chain forms the prerequisite for fulfilling the LONGLIFE quality criteria. It begins with the choice of wood, continues with state-of-the-art construction and production and ranges from coating to transportation and installation.

The Duraflex coating system is the optimum coating for redeeming the LONG-LIFE quality promise.
With LONGLIFE you offer your customers across Europe quality wooden windows and doors as well as the security and comfort of a premium coating.

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 N00: 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 N00: 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
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

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
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

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**

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WOOD COATINGS

Passion for wood

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www.akzonobel.com

AkzoNobel creates everyday essentials to make people's lives more liveable and inspiring. As a leading global paints and coatings company and a major producer of specialty chemicals, we supply essential ingredients, essential protection and essential color to industries and consumers worldwide. Backed by a pioneering heritage, our innovative products and sustainable technologies are designed to meet the growing demands of our fast-changing planet, while making life easier. Headquartered in Amsterdam, the Netherlands, we have approximately 46,000 people in around 80 countries, while our portfolio includes well-known brands such as Dulux, Sikkens, International, Interpon and Eka. Consistently ranked as a leader in sustainability, we are dedicated to energizing cities and communities while creating a protected, colorful world where life is improved by what we do.

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