

# Beckry<sup>®</sup> Roll

Highly abrasion resistant coatings for Roller Shutters and Garage Doors

Beckry<sup>®</sup> Roll

a comprehensive range of coating systems

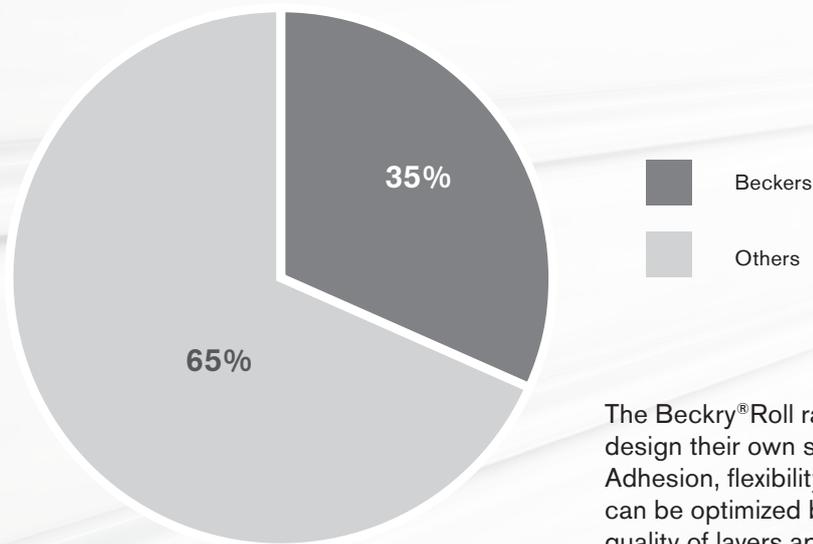


Beckers Group is a leading global supplier of coatings and the premier supplier of coil coatings in Europe. Beckers' international organization ensures global coordination and consistent product standards. We are flexible, innovative and cooperate closely with our customers.

Our high abrasion resistant Beckry®Roll coil coating systems are the ideal solution for roller shutters and garage doors. Featuring both mono-coat and multi-coat systems, the Beckry®Roll range includes special wood-effect finishes, thermo-reflective outdoor finishes and low emissivity indoor paints. The range also features specific primers and backers, as well as finishes for shutter boxes of aluminium and galvanized steel.

Roller shutters offer extra security, greater comfort and improved economy (energy-savings). The broad Beckry®Roll palette of colours enables architects and property developers to add an aesthetically pleasing dimension when designing residential and commercial buildings.

### Roller shutter market share in Europe



\*Over 100 000 tons of coated aluminium a year.

The Beckry®Roll range allows customers to design their own systems to meet specifications. Adhesion, flexibility, UV and abrasion resistance can be optimized by adjusting the number and quality of layers applied to the substrate.

Roller shutters contribute to sustainable living and thermal comfort by reducing heat loss and limiting heat build-up during warm weather.

#### About Beckers Group:

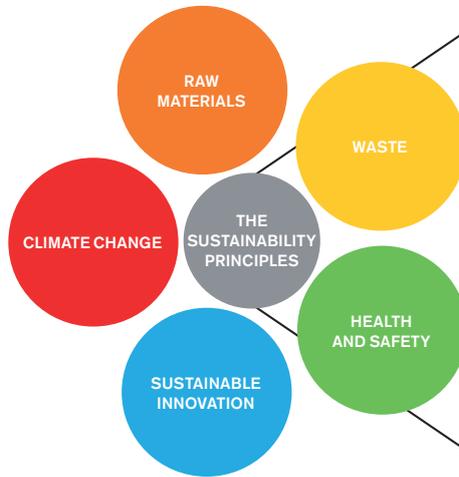
A privately-owned global industrial coatings company, Beckers Group is active in three business segments – Coil Coatings, Special Coatings and CDF (Consumer Design Finishes) – with operations at 20 locations in 16 countries.

**Beckers is focused** on developing sustainable coatings and processes - our vision is to become the most sustainable industrial coatings company in the world. Our business requires a foundation

of profound scientific knowledge to develop our products and we are collaborating with The Natural Step to support our strategic planning.

### OUR FIVE GLOBAL SUSTAINABILITY FOCUS AREAS

Our business is about aesthetic and durable coatings, striving for a palette of colours that serves society in multiple functions. For the environment, we have developed our global sustainability palette – our focus areas to help ensure survival of the planet and of society:



THE NATURAL STEP'S FOUR SUSTAINABILITY PRINCIPLES  
In a sustainable society, nature is not subject to systematically increasing...



... concentrations of substances extracted from the Earth's crust



... concentrations of substances produced by society



... degradation by physical means



And, in that society...  
... people are not subject to conditions that systematically undermine their capacity to meet their needs.

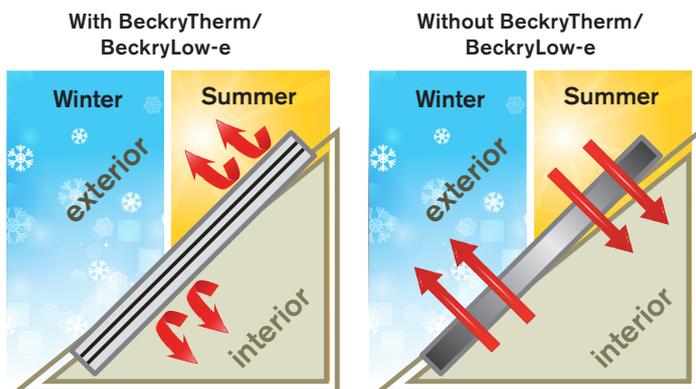
## Beckry<sup>®</sup>Therm and Beckry<sup>®</sup>Low-e contribute to sustainability and economic gains

**Beckry<sup>®</sup>Therm and Beckry<sup>®</sup>Low-e** offer intelligent and modern roller shutter coatings options that contribute to sustainable living by reducing energy consumption.

increasing the durability of shutters and shutter boxes. Beckry<sup>®</sup>Therm also decreases the air conditioning requirement.

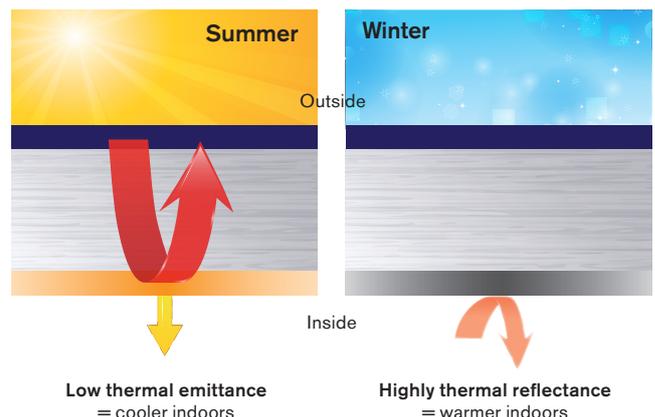
**Beckry<sup>®</sup>Therm** top coats for exterior use reduce heat absorption by shutters even when coated with dark colours, by selectively reflecting solar energy. By maintaining a lower surface temperature, Beckry<sup>®</sup>Therm reduces thermal stresses, thereby

**Beckry<sup>®</sup>Low-e** is low emissivity paint for interior use which acts as a thermal barrier. A roller shutter or garage door painted with Beckry<sup>®</sup>Low-e will offer a reduced level of thermal transfer (see *below*).



*In summer*, most of the energy from the sun is reflected back, and only a small fraction of energy absorbed is then radiated into the room which considerably limits heat build up inside the buildings.  
*In winter*, the BeckryLow-e coat reflects the heat inside, limiting heat loss.

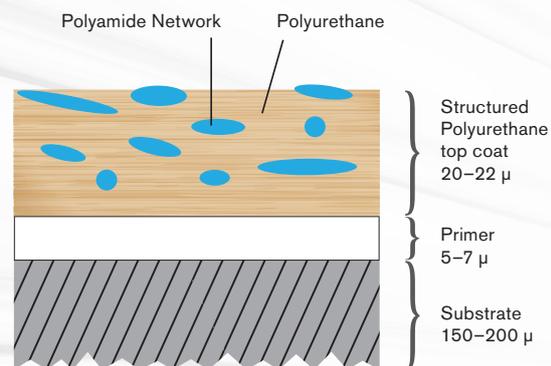
### How BeckryLow-e works



# Beckry® Roll range: no-compromise abrasion resistance!

## Beckry® Roll

One-coat system (top coat direct on substrate). One-coat finish, based on polyurethane chemistry modified with polyamide, for direct adhesion on aluminium substrate. Offers high abrasion resistance and good UV resistance.



## Beckry® Roll Plus

Two-coat system (primer and top coat) with excellent outdoor resistance. Suitable both for galvanized steel and aluminium substrates, with corresponding primers.



Beckry® Roll Plus

## Beckry® Roll Premium

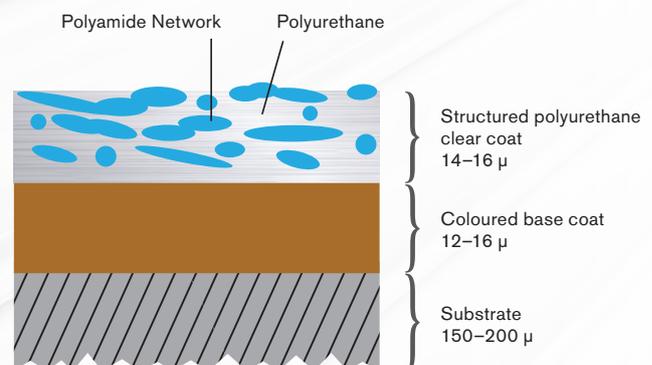
Two-coat system (base coat and clear coat) with high-end finish for roller shutters. Smooth base coat based on polyester or polyurethane chemistry for outstanding flexibility. High-end clear coat, based on polyurethane chemistry modified with polyamide



Beckry® Roll Premium Plus

## Beckry® Roll Premium Plus

Two-coat system (base coat and clear coat) with high-end finish for roller shutters. Smooth base coat based on polyester or polyurethane chemistry for outstanding flexibility. Very high-end clear coat, based on polyurethane chemistry modified with polyamide. The system provides excellent blocking and abrasion resistance as well as exceptional durability.



# System Performances

Product Range and System Properties	Beckry® Roll	Beckry® Roll Plus	Beckry® Roll Premium	Beckry® Roll Premium Plus
Film Thickness	20–30 µm Top coat	5–7 µm Primer 20–22 µm Top coat	12–16 µm Base coat 14–16 µm Clear coat	12–16 µm Base coat 14–16 µm Clear coat VHD
Gloss 60 °	20–35 GU	20–35 GU	20–35 GU	20–25 GU
Surface Appearance	Colour dependent	Colour dependent	Constant	Constant
T-Bend ECCA Adhesion (EN 13523-7) Flexibility	0 T–0,5 T NPO* 0 T–1,0 T NC*	0 T NPO 0 T–0,5 T NC*	0 T NPO 0 T NC*	0 T NPO 0 T NC*
Taber Abrasion 500 rounds CS10–2 x0,5 kg 1000 rounds	10–20 mg* 25–40 mg*	10–20 mg* 25–40 mg*	5 mg 3–7 mg	2,3 mg 2–3 mg
QUVA 2000 H	GR 30–60%* Δ E < 3*	GR 30–60%* Δ E < 3*	GR > 60% Δ E < 3*	GR > 80% Δ E < 2*
QUV B 1000 H	GR 15–30%* Δ E < 8*	GR 15–30%* Δ E < 8*	GR 15–30%* Δ E < 6*	GR > 60% Δ E < 4*
Blocking Resistance	Good	Good	Good	Excellent
Corrosion Resistance	Good	Excellent	Excellent	Excellent
Chemical Resistance	Good**	Good**	Excellent	Excellent
Profile Marking Resistance	Good	Good	Excellent	Excellent

\*Performance values depend on colour and substrate types. \*\*For metallic colours in heavily polluted environments contact your nearest Beckers' site for recommendations.

Δ E = Colour Deviation  
GR = Gloss Retention  
GU = Gloss Unit  
NC = No Cracks  
NPO = No Pick Off  
VHD = Very High Durability



Photo: Courtesy Elval Colour

# Supplementary range

## Beckry® Prim

Full range of chromate-free primers for galvanized steel and aluminium.

## Beckry® Coat

Specific backers, clear or pigmented, for perfect foam adhesion and excellent profiling behaviour.

## Beckry® Pol

Top coat range for boxes. High flexibility, smooth polyester, in same colour range as the roller shutters.

## Beckry® Therm

A range of special thermal-control coatings.

## Beckry® Low-e

Low emissivity paint for interior use which functions as a thermal energy barrier coating. Significantly reduced heat transfer and improved thermal comfort.

## Beckry® Ink

Aesthetically appealing special-effect finishes, such as wood grain or metallic, featuring a base coat and clear coat system.



# Just like the real thing

The thin layer mid-coat range creates a convincing faux wood grain finish, achieved by applying a monochrome design on a plain base coat. The range of colour combinations ensures considerable aesthetic freedom.

This wood-effect finish is a three-layer system.

Clear coat 14–16 µm

Beckry® Ink 1–3 µm

Base coat 12–16 µm

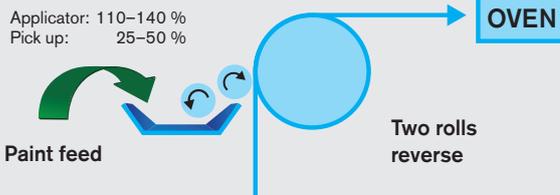
## Line configurations

Beckry® Ink can be supplied for wet-on-wet application as well as traditional curing.

DFT = Dry Film Thickness  
PMT = Paint Metal Temperature

### Primer head/Layer 1:

BASE COAT:  
DFT 13–15 µm  
PMT 224–232 °C

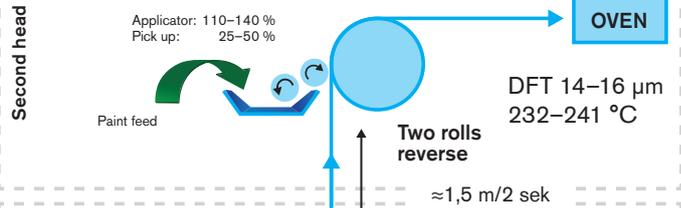


Two line runs

One line run

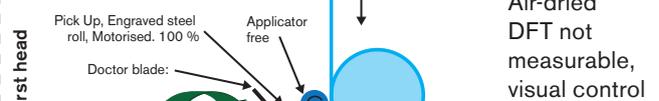
### Top coat heads/ Layer 3:

CLEAR COAT



### Layer 2:

INK

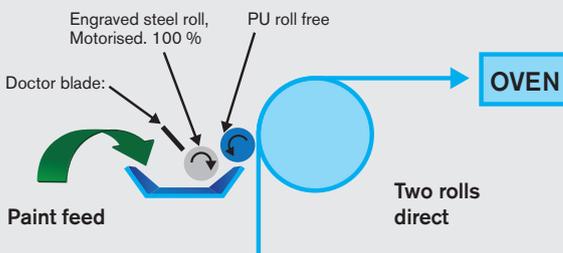


Ink for wet-on-wet application

Two rolls direct

### Primer head/Layer 2:

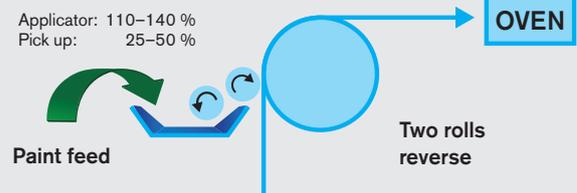
INK:  
DFT not measurable, visual control  
PMT 224–232 °C



### Top coat head/Layer 3:

CLEAR COAT:

DFT 14–16 µm  
PMT 232–241 °C



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**Beyond The Surface**

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