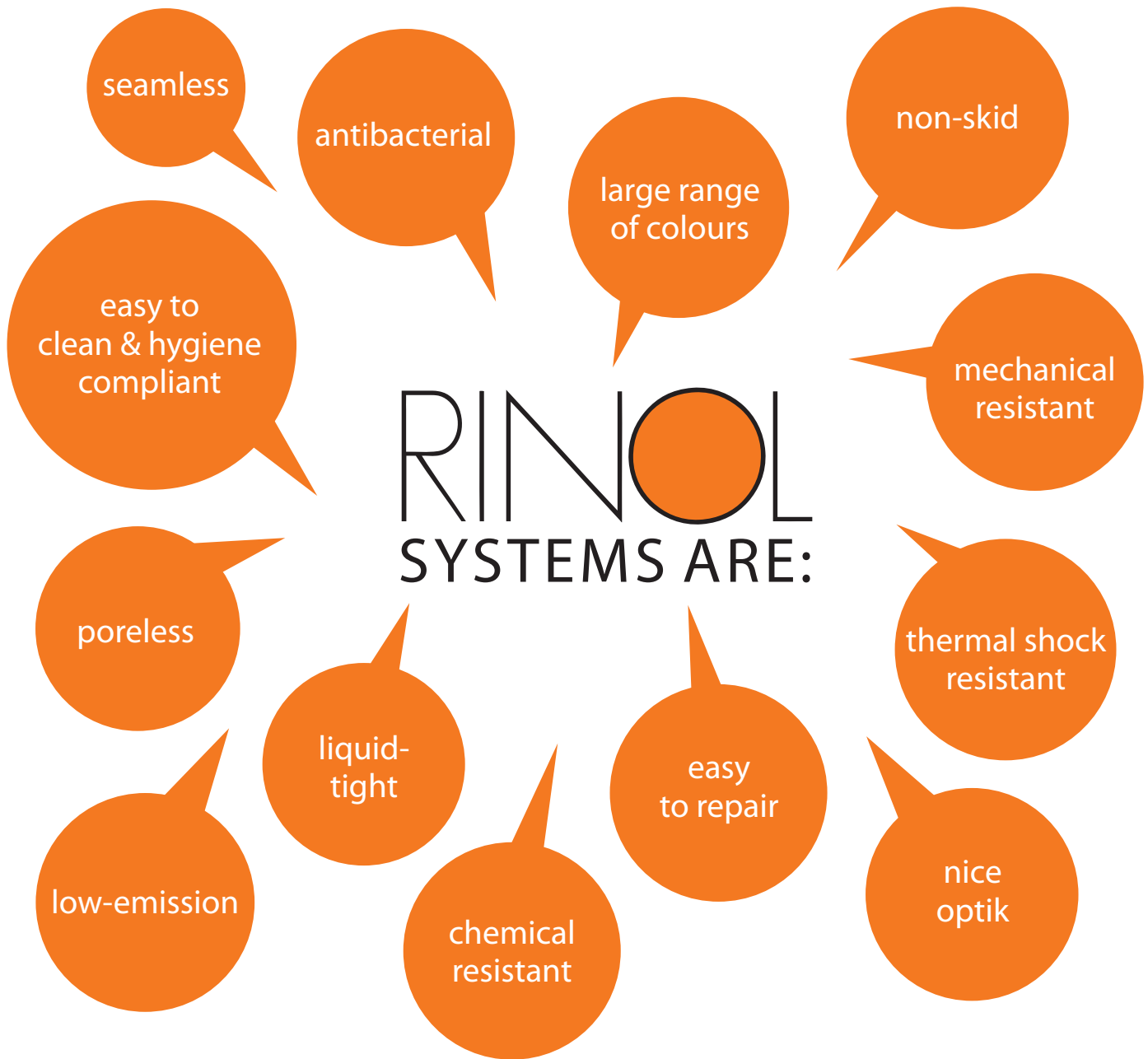


# RINOL



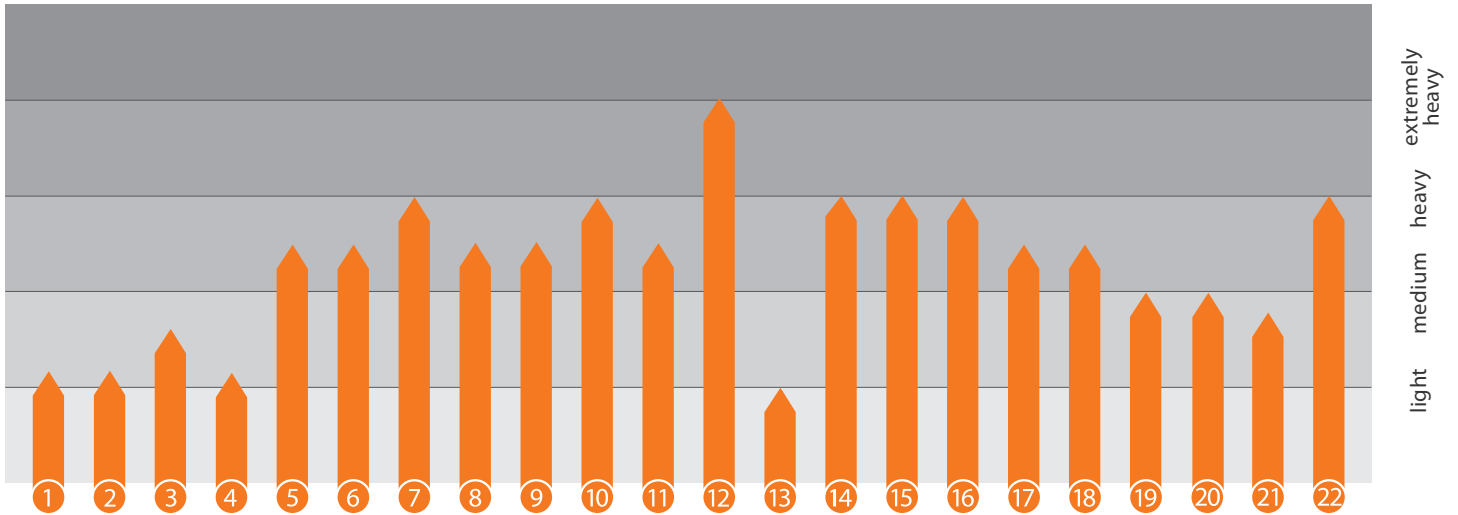
**RINOL FLOORING SYSTEMS**  
22 customized solutions

# RINOL SYSTEMS—PERFECT SOLUTIONS FOR EVERYONE



Greatest mechanical strength and evenness, durability and great chemical resistance combined with minimal maintenance demands are just some of the requirements now imposed on industrial floors. RINOL coating systems based on reactive resins meet these strict requirements with flying colours. With over fifty years of experience in the development, production and application of pouring-resin coating systems, the RCR Industrial Flooring Group is the market leader in the area of industrial floors and coatings.

**Whether in the new creation of floor areas, in the customization of existing floor spaces to changing user requirements, or in the case of refurbishment,** our pouring-resin coating systems based on epoxy, polyurethane, vinylester, or polyester resins are up to any load and ensure high hygienic and operational-safety standards. RINOL systems are impermeably processed onto existing installations. Thus liquid infiltration can be prevented. The floor-wall connection is made in the form of a chamfer or a liquid-tight sump, thereby considerably simplifying floor cleaning and reducing maintenance costs. Various international reports exist about the overall systems. We'll be happy to make them available to you as needed.



- |  |  |
|--|--|
| <p>① <b>RINOL SEALING</b><br/>Non-dusting seal<br/>About 0.5 mm to 0.8 mm thickness</p> <p>② <b>RINOL SEALING THIXO ECO</b><br/>Structure sealing<br/>About 0.5 mm to 0.8 mm thickness</p> <p>③ <b>RINOL STANDARD ECO</b><br/>Water-based coating<br/>About 2 mm to 3 mm thickness</p> <p>④ <b>RINOL PEARLS</b><br/>Non-skid,<br/>sealing filled with <b>PEARLS</b><br/>About 0.5 mm to 0.8 mm thickness</p> <p>⑤ <b>RINOL STANDARD</b><br/>Abrasion-resistant coating<br/>About 1 mm to 2 mm thickness</p> <p>⑥ <b>RINOL STANDARD „LOW EMISSION“</b><br/>Abrasion-resistant coating<br/>About 1 mm to 2 mm thickness</p> <p>⑦ <b>RINOL ALLROUNDER</b><br/>Smooth coating<br/>About 3 mm thickness</p> <p>⑧ <b>RINOL EXQUISIT EP</b><br/>Decorative, configurable coating<br/>About 3 mm to 4 mm thickness</p> <p>⑨ <b>RINOL DESIGN EP</b><br/>Decorative epoxy-resin coating (quartzite appearance)<br/>About 3 mm to 4 mm thickness</p> <p>⑩ <b>RINOL CONDUCTIVE</b><br/>Conductive, epoxy-resin coating<br/>About 3 mm to 4 mm thickness</p> <p>⑪ <b>RINOL CONDUCTIVE DESIGN</b><br/>Decorative, conductive epoxy (quartzite appearance)<br/>About 4 mm thickness</p> | <p>⑫ <b>RINOL SOLID</b><br/>Hygienic synthetic-resin mortar<br/>About 8 mm to 10 mm thickness</p> <p>⑬ <b>RINOL PERM</b><br/>Water based sealer<br/>About 0,3 mm to 0,5 mm thickness</p> <p>⑭ <b>RINOL GFR</b><br/>Mono colour quartz-coating system<br/>About 3 mm to 4 mm thickness</p> <p>⑮ <b>RINOL QCR</b><br/>Colour quartz coating system<br/>About 3 mm to 4 mm thickness</p> <p>⑯ <b>RINOL QCR AST</b><br/>Conductive floor covering<br/>with non-skid surface<br/>About 4 mm to 5 mm thickness</p> <p>⑰ <b>RINOL WHD/WHE</b><br/>High chemical resistant coating<br/>About 2 mm to 3 mm thickness</p> <p>⑱ <b>RINOL ALLROUNDER PU</b><br/>Semi flexible 2 K PUR coating<br/>About 3 mm to 4 mm thickness</p> <p>⑲ <b>RINOL ALLROUNDER PU FLEX</b><br/>Decorative, comfortable-walking 2 K PUR coating<br/>About 3 mm to 4 mm thickness</p> <p>⑳ <b>RINOL COMFORT</b><br/>Decorative, elastic 2 K PUR coating<br/>About 3 mm to 4 mm thickness</p> <p>㉑ <b>RINOL COMFORT DESIGN</b><br/>Decorative, comfortable-walking 2 K PUR coating<br/>(quartzite appearance)<br/>Around 3 mm to 4 mm thickness</p> <p>㉒ <b>RINOL ALLROUNDER UP</b><br/>Polyester resin coating<br/>About 3 mm to 4 mm thickness</p> |
|--|--|

# RINOL SEALING

ECONOMICAL SURFACE PROTECTION WITH OPTIMIZED PERFORMANCE

## System characteristics

Two-layer epoxy resin sealing system for concrete and similar substrates.

0.5 mm to 0.8 mm layer thickness

Temperature stability to 60°

## Colour palette

The information is located in the RINOL colour chart

## Properties

- Minimal odour during processing
- Protects and hardens surfaces
- Tough
- Non-slip
- Seamless
- Non-dusting

## Range of application

- Lightly loaded industrial floors
- Storage areas
- Automotive industry
- Pedestrian traffic areas

## Technical data

Tensile bond strength > 1.5 N/mm<sup>2</sup>

DIN ISO 4624

Abrasion resistance

Taber CS10 wheel 74 mg/1000 cycles

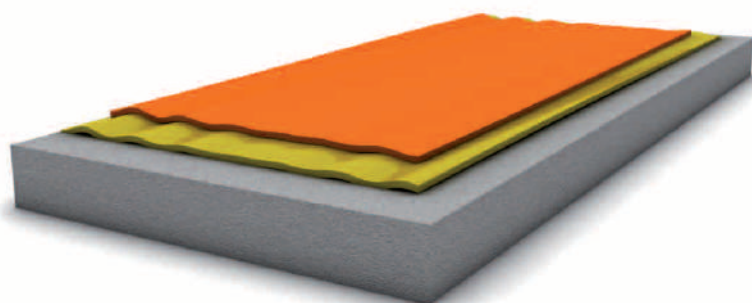
DIN 53754 / ASTM D 1044




Shore D hardness 72

DIN 53505 / ASTM D 2240

Light resistance (scale 1–8 very good = 8) 6

DIN EN ISO 877



-  **Sealing**  
RINOL EP-S600
-  **Primer**  
RINOL EP-P202
-  **Substrate**

### IMPORTANT NOTICE

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# RINOL SEALING THIXO ECO

STRUCTURAL COATING

## System characteristics

Two-layer, epoxy-resin sealing system with studded structure for concrete and similar substrates  
0.5 mm to 0.8 mm layer thickness

**Temperature stability to** 60°C

## Colour palette

The information is located in the RINOL colour chart

## Properties

- Minimal odour generation during processing
- Protects and hardens surfaces
- Tough
- Non-slip
- Seamless
- Non-dusting
- Electrically conductive in combination with RINOL EP-S642 LE and EP-E480

## Range of applications

- Lightly loaded industrial floors
- Storage areas
- Automotive industry
- Pedestrian traffic areas
- Schools

## Technical data

**Tensile bond strength > 1.5 N/mm<sup>2</sup>**

DIN ISO 4624

**Flexural strength 41**

DIN EN 196

**Abrasion resistance**

Taber CS10 wheel 84 mg/1000 cycles

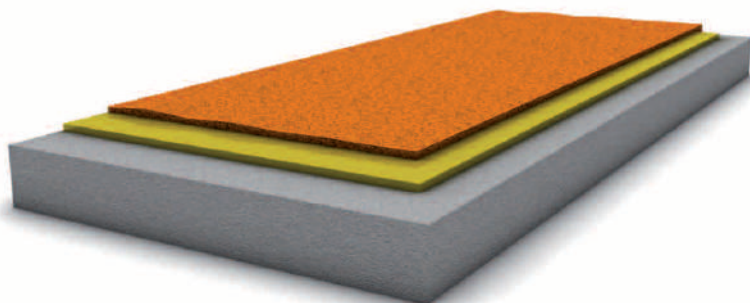
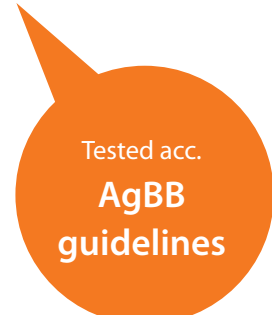
DIN 53754/ASTM D 1044


**Shore D hardness 81**

DIN 53505 / ASTM D 2240

**Colour stability (scale 1–8, 8 = very good) 7**

DIN EN ISO 105-B02



-  **Sealing**  
RINOL EP-S643
-  **Primer**  
RINOL EP-P206
-  **Substrate**

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# RINOL STANDARD ECO

AQUEOUS FLOOR COATINGS: A MODEL FOR NATURE

## System characteristics

Special three-layer, aqueous epoxy-resin floor coating system for cement screed, ceramic and similar substrates.

Cloudy appearance is possible by mixing two or more colour tones.

2 mm to 3 mm layer thickness

**Temperature stability to** 60 °C dry

## Colour palette

The information is located in the RINOL colour chart

## Properties

- Water vapour permeability
- Nature friendly
- Tough and long-lasting
- Hygienic
- Smooth or non-slip surface
- Good pressure and flexural strength
- Seamless
- Good chemical resistance

## Range of applications

- Lightly to moderately loaded industrial floors
- For wet substrates
- Warehouses and storage areas
- Magnesite screeds
- Sales businesses

## Technical data

**45 N/mm<sup>2</sup> compressive strength**

DIN EN 196 / ASTM C 109

**About 30 N/mm<sup>2</sup> flexural strength**

DIN EN 196 / ASTM C 190

**Tensile bond strength > 1.5 N/mm<sup>2</sup>**

DIN ISO 4624

## Abrasion resistance

(Taber CS10 wheel) 20 mg to 30 mg/1000 cycles

DIN 53754/ASTM D 1044

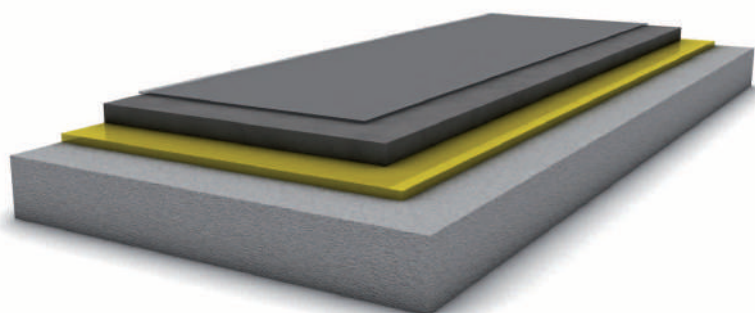
**Shore D hardness is about 65**

DIN 53505/ASTM D 2240

**Water vapour permeability classification III**

DIN EN ISO 7783-2

Tested acc.  
**AgBB**  
guidelines



**Optional: sealing**  
RINOL PU-TS686

 **Top coat**  
RINOL EP-C531 EW

 **Aqueous primer**  
RINOL EP-P240N

 **Substrate**

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# RINOL PEARLS

ANTI-SKID SEALING SYSTEM

## System characteristics

Two-layer epoxy resin sealing system for concrete and similar substrates. Slip resistance is achieved by adding RINOL Pearls. 0.5 mm to 0.8 mm layer thickness

**Temperature stability to 60 °C**

## Colour palette

The information is located in the RINOL colour chart

## Properties

- Non-skid
- Easy to clean
- Minimal odour
- Tough
- Seamless
- Non-dusting

## Range of applications

- Lightly to moderately loaded production areas
- Storage areas
- Travel ways

## Technical data

### 1.5 N/mm<sup>2</sup> tensile bond strength

DIN ISO 4624

### Abrasion resistance

Taber CS10 wheel 74 mg/1000 cycles

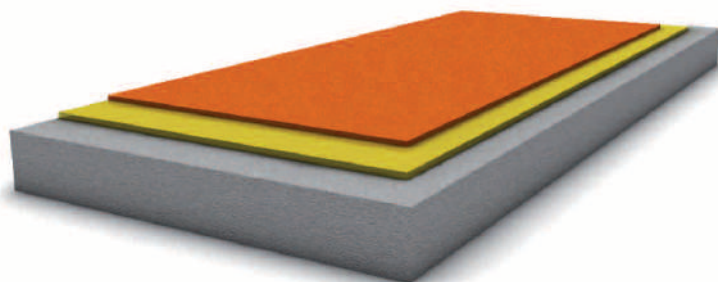
DIN 53754 / ASTM D 1044

### Shore D hardness 72

DIN 53505 / ASTM D 2240

### Colour stability (scale 1–8, 8 = very good) 6

DIN EN ISO 877



 **Sealing**  
RINOL EP-S600  
+ PEARLS

 **Primer**  
RINOL EP-P202

 **Substrate**

## IMPORTANT NOTICE

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# RINOL STANDARD

PROVEN RELIABLE AND LONG-LASTING A MILLION TIMES

## System characteristics

Two-layer epoxy resin floor-coating system for concrete and similar substrates.

1 mm to 2 mm layer thickness

**Temperature stability to 60 °C**

## Colour palette

The information is located in the RINOL colour chart

## Properties

- Minimal odour generation during processing
- Tough and long-lasting
- Hygienic and impermeable
- Meets EU regulations for the food industry
- Smooth or non-slip surface possible
- Seamless
- Good chemical resistance

## Range of applications

- Moderately to heavily loaded industrial floors
- Workshops
- Storage areas
- Exhibition and trade-show centres
- Production areas

## Technical data

**65 N/mm<sup>2</sup> compressive strength**

DIN EN 196/ASTM C 109

**40 N/mm<sup>2</sup> flexural strength**

DIN EN 196/ASTM C 190

**Tensile bond strength > 1.5 N/mm<sup>2</sup>**

DIN ISO 4624

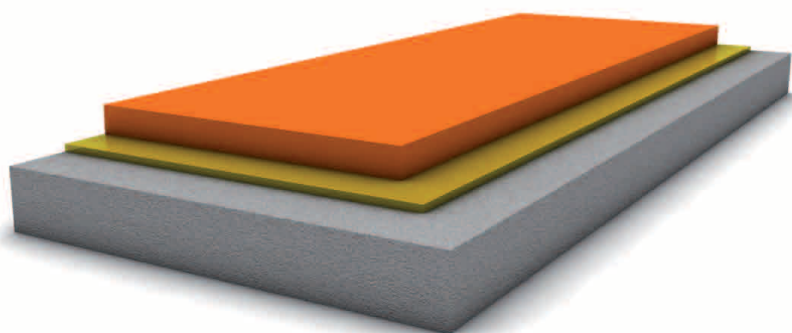
**Abrasion resistance**




Taber CS10 wheel 80 mg/1000 cycles

DIN 53754/ASTM D 1044

**Shore D hardness 80**

DIN 53505 / ASTM D 2240



-  **Top coat**  
RINOL EP-C523
-  **Primer**  
RINOL EP-P202
-  **Substrate**

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# RINOL STANDARD LE

LOW EMISSION WHILE COATING

## System characteristics

Two-layer epoxy resin floor-coating system for concrete and similar substrates.

1 mm to 2 mm layer thickness

**Temperature stability to 60 °C**

## Colour palette

The information is located in the RINOL colour chart

## Properties

- Minimal odour generation during processing
- Tough and long-lasting
- Hygienic and impermeable
- Meets EU regulations for the food industry
- Smooth or non-slip surface possible
- Seamless
- Good chemical resistance

## Range of applications

- Moderately to heavily loaded industrial floors
- Workshops
- Storage areas
- Exhibition and trade-show centres
- Schools and offices

## Technical data

### 70 N/mm<sup>2</sup> compressive strength

DIN EN 196 / ASTM C 109

### 45 N/mm<sup>2</sup> flexural strength

DIN EN 196 / ASTM C 190

### Tensile bond strength > 1.5 N/mm<sup>2</sup>

DIN ISO 4624

### Abrasion resistance

Taber CS10 Rad 80 mg/1.000 Zyklen

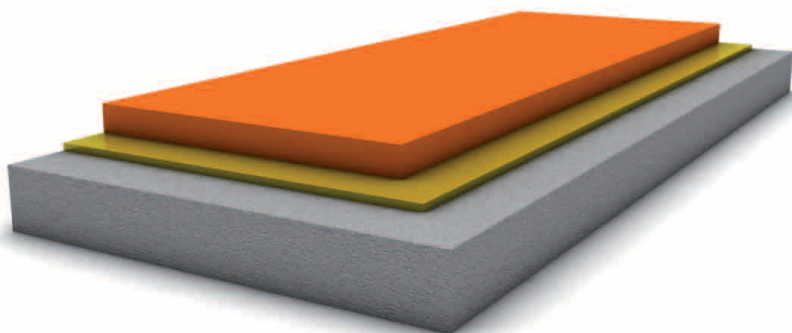
DIN 53754 / ASTM D 1044

### Shore D hardness 75

DIN 53505 / ASTM D 2240

Tested acc.

**AgBB  
guidelines**



 **Top coat**  
RINOL EP-C522

 **Primer**  
RINOL EP-P202/209

 **Substrate**

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# RINOL ALLROUNDER EP

THE EXTREMELY VERSATILE FLOOR COATING

## System characteristics

Three-layer epoxy resin floor-coating system for concrete and similar substrates.

About 3 mm layer thickness

**Temperature stability to 60 °C**

## Colour palette

The information is located in the RINOL colour chart

## Properties

- Minimal odour generation during processing
- Tough and long-lasting
- Hygienic and impermeable
- Meets EU regulations for the food industry
- Smooth or non-slip surface
- Can be laid with the strictest requirements for levelness
- Seamless
- Good chemical resistance

## Range of applications

- Moderately to heavily loaded industrial floors
- High-bay warehouses
- Other warehouses and storage areas
- Laboratories
- Production areas

## Technical data

**71 N/mm<sup>2</sup> compressive strength**

DIN EN 196 / ASTM C 109

**45 N/mm<sup>2</sup> flexural strength**

DIN EN 196 / ASTM C 109

**1.5 N/mm<sup>2</sup> tensile bond strength**

DIN ISO 4624

**Abrasion resistance**

Taber CS10 wheel 80 mg/1000 cycles

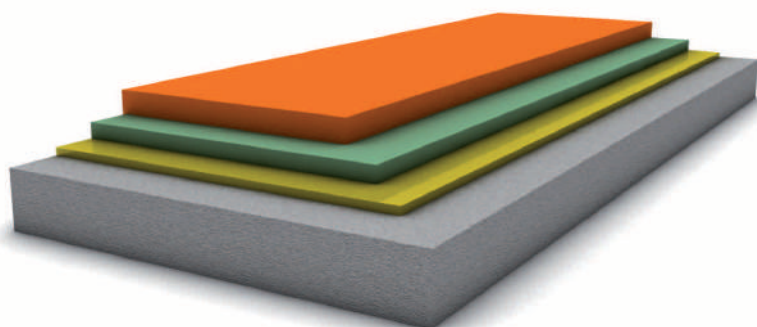
DIN 53754/ASTM D 1044




**Shore D hardness 80**

DIN 53505 / ASTM D 2240

**Colour stability (scale 1–8, 8 = very good) 6**

DIN EN ISO 877



-  **Top coat**  
RINOL EP-C523
-  **Levelling layer**  
RINOL EP-L300
-  **Primer**  
RINOL EP-P202
-  **Substrate**

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## System characteristics

Quadruple-layer epoxy resin floor-coating system with coloured chips for concrete and similar substrates.  
3 mm to 4 mm layer thickness

**Temperature stability to** 60 °C

## Colour palette

Offers a nearly unlimited number of colour combinations and patterns  
You can find further information in the RINOL colour chart

## Properties

- Minimal odour generation during processing
- Tough and long-lasting
- Hygienic and impermeable
- Meets EU regulations for the food industry
- Smooth or non-slip surface
- Can be laid with the strictest requirements for levelness
- Seamless
- Good chemical resistance

## Range of applications

- Lightly to moderately loaded floors
- Exhibition areas
- Reception areas and lobbies
- Stores and offices
- Theatres

## Technical data

**67 N/mm<sup>2</sup> compressive strength**

DIN EN 196 / ASTM C 109

**Biegezugfestigkeit 52 N/mm<sup>2</sup>**

DIN EN 196 / ASTM C 109

**1.5 N/mm<sup>2</sup> tensile bond strength**

DIN ISO 4624

## Abrasion resistance

Taber CS10 wheel 78 mg/1000 cycles

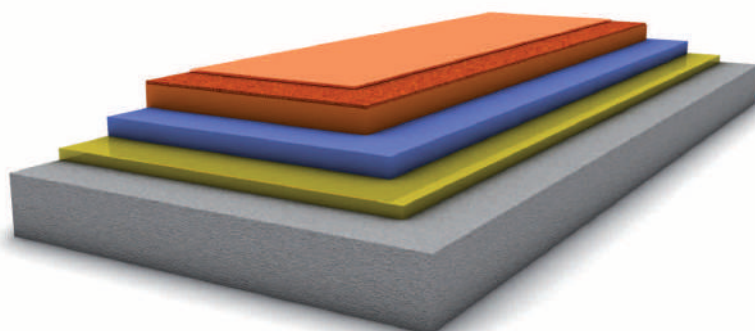
DIN 53754/ASTM D 1044






## Shore D hardness 80

DIN 53505 / ASTM D 2240

**Colour stability (scale 1–8, 8 = very good) 7**

DIN EN ISO 877



-  **Transparent coating**  
RINOL EP-T710
-  **Top coat**  
RINOL EP-C523 + coloured chips
-  **Levelling layer**  
RINOL EP-L300
-  **Primer**  
RINOL EP-P202
-  **Substrate**

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# RINOL DESIGN EP

HIGHLY FUNCTIONAL AND VISUALLY APPEALING

## System characteristics

Decorative RINOL epoxy-resin system with quartzite appearance for cement screeds and similar substrates.

3 mm to 4 mm layer thickness

**Temperature stability to** 60 °C

## Colour palette

Obtainable with various quartzite appearances such as granite and marble

## Properties

- Outstanding aesthetics
- Good mechanical strength
- Hygienic and liquid-tight
- Smooth, easy-to-clean surface
- Seamless
- Minimal odour generation during processing

## Range of applications

- Entrance halls and foyers
- Canteens
- Prestigious areas
- Conference rooms
- Showrooms, exhibition halls

## Technical data

**68 N/mm<sup>2</sup> compressive strength**

DIN EN 196 / ASTM C 109

**35 N/mm<sup>2</sup> flexural strength**

DIN EN 196 / ASTM C 190

**Tensile bond strength > 1.5 N/mm<sup>2</sup>**

DIN ISO 4624

**Abrasion resistance**

Taber CS10 Rad 51 mg/1.000 Zyklen

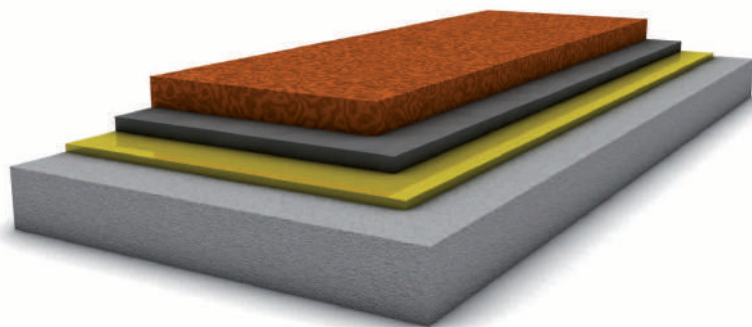
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



**Shore D hardness 82**

DIN 53505 / ASTM D 2240

**Colour stability (scale 1–8, 8 = very good) 7**

DIN EN ISO 877



-  **Decorative top coat**  
RINOL EP-C510
-  **Levelling layer**  
RINOL EP-L300
-  **Primer**  
RINOL EP-P202
-  **Substrate**

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# RINOL CONDUCTIVE

VERSATILE, DURABLE AND CONDUCTIVE

## System characteristics

Four-layer, electrically conductive floor-coating system from epoxy resin for concrete and similar substrates.  
3 mm to 4 mm layer thickness

**Temperature stability to** 60 °C

## Colour palette

See RINOL colour chart

## Properties

- Minimal odour generation during processing
- Electrically conductive
- Tough and durable
- Smooth, easy-to-clean surface
- Non-dusting
- Seamless
- Good chemical resistance

## Range of applications

- Explosion-protected industrial areas
- Operating theatres
- Clean rooms
- Power plants
- Substations and switching stations
- Electronic industry
- Automotive industry

## Technical data

**73 N/mm<sup>2</sup> compressive strength**

DIN EN 196 / ASTM C 109

**45 N/mm<sup>2</sup> flexural strength**

DIN EN 196 / ASTM C 109

**1.5 N/mm<sup>2</sup> tensile bond strength**

DIN ISO 4624

## Abrasion resistance

Taber CS10 wheel 78 mg/1000 cycles

DIN 53754/ASTM D 1044

## Shore D hardness 83

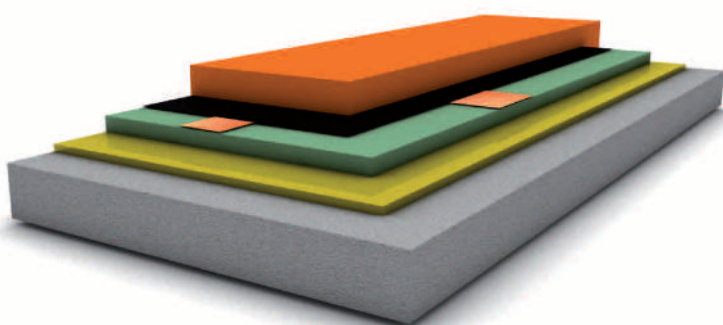
DIN 53505 / ASTM D 2240






## Resistance to earth < 1 MΩ

DIN 51953/ DIN EN 1081

## Colour stability (scale 1–8, 8 = very good) 6

DIN EN ISO 877



-  **Conductive top coat**  
RINOL EP-C523AS
-  **Conductive primer**  
RINOL EP-E480 with copper tape
-  **Levelling layer**  
RINOL EP-L300
-  **Primer**  
RINOL EP-P202
-  **Substrate**

### IMPORTANT NOTICE

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# RINOL CONDUCTIVE DESIGN

HIGHLY FUNCTIONAL, ELECTRICALLY CONDUCTIVE AND VISUALLY APPEALING

## System characteristics

Conductive RINOL epoxy-resin system with quartzite appearance for cement screeds and similar substrates with electrically conductive design.

About 4 mm layer thickness

**Temperature stability to 60 °C**

## Colour palette

Obtainable in various quartzite appearances

## Properties

- Outstanding aesthetics
- Good mechanical strength
- Hygienic and liquid-tight
- Electrically conductive
- Smooth, easy-to-clean surface
- Seamless
- Minimal odour generation during processing

## Range of applications

- Clinics
- Hospitals
- VdF warehouses

## Technical data

### 68 N/mm<sup>2</sup> compressive strength

DIN EN 196 / ASTM C 109

### 35 N/mm<sup>2</sup> flexural strength

DIN EN 196 / ASTM C 109

### 1.5 N/mm<sup>2</sup> tensile bond strength

DIN ISO 4624

### Abrasion resistance

Taber CS10 Rad 51 mg/1.000 Zyklen

DIN 53754 / ASTM D 1044

### Shore D hardness 82

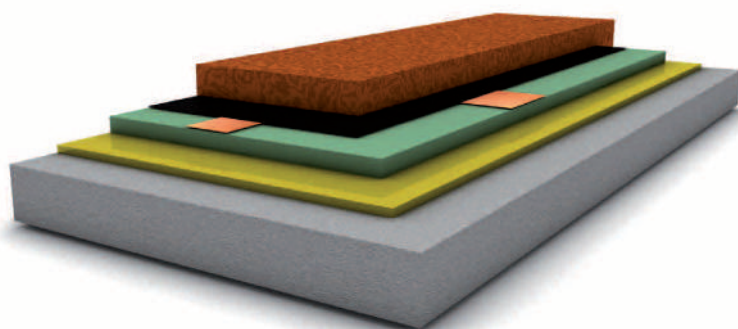
DIN 53505 / ASTM D 2240






### Resistance to earth < 1 MΩ

DIN 51953/ DIN EN 1081

### Colour stability (scale 1–8, 8 = very good) 7

DIN EN ISO 877



-  **Decorative conductive top coat**  
RINOL EP-C560
-  **Conductive primer**  
RINOL EP-E480 with copper tape
-  **Levelling layer**  
RINOL EP-L300
-  **Primer**  
RINOL EP-P202
-  **Substrate**

## IMPORTANT NOTICE

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## System characteristics

Three-layer epoxy-resin mortar system with coloured quartz for concrete and similar substrates.  
8 mm to 10mm layer thickness

**Temperature stability to 60 °C**

## Colour palette

The information is located in the RINOL colour chart

## Properties

- Minimal odour generation during processing
- Various design options
- Numerous colour combinations
- Withstands heavy usage too
- Hygienic and liquid-tight
- High impact resistance
- Combines slip resistance and easy maintenance.
- Seamless
- Good chemical resistance

## Range of applications

- Heavy loaded traffic
- Metal-working industry
- Pharmaceutical industry
- Supermarkets
- Department stores
- Food and Beverage Manufacturing

## Technical data

### 115 N/mm<sup>2</sup> compressive strength

DIN EN 196 / ASTM C 109

### 40 N/mm<sup>2</sup> flexural strength

DIN EN 196 / ASTM C 109

### Tensile bond strength > 1.5 N/mm<sup>2</sup>

DIN ISO 4624

### Abrasion resistance

Taber CS10 wheel 6.2 cm<sup>3</sup>/50 cm<sup>2</sup>

DIN 53754/ASTM D 1044

### R10 slip resistance

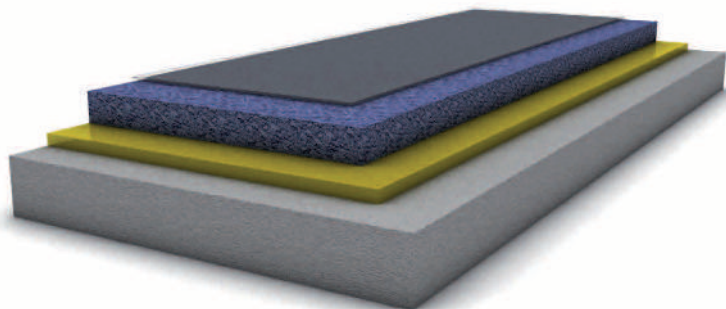
DIN 51130

### Shore D hardness 84

DIN 53505 / ASTM D 2240

### Colour stability (scale 1–8, 8 = very good) 7

DIN EN ISO 877



#### Optional: sealing

RINOL PU-TS686



#### Transparent sealing

RINOL EP-T710



#### Synthetic resin mortar

RINOL EP-T700 with coloured quartz



#### Primer

RINOL EP-P202



#### Substrate

#### IMPORTANT NOTICE

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# RINOL PERM

WATER BASED EPOXY RESIN SEALER

## System characteristics

Two-layer, aqueous, solvent-free, epoxy resin sealing system for concrete and similar substrates.

0.3 mm to 0.5 mm layer thickness

**Temperature stability to 60 °C**

## Colour palette

The information is located in the RINOL colour chart

## Properties

- Minimal odour generation during processing
- Water vapour permeability
- Protects surfaces
- Optional R 10 non-slip
- Seamless
- Non-dusting

## Range of applications

- Lightly loaded industrial floors
- Engineering rooms
- Storage areas
- Warehouses
- Pedestrian traffic areas

## Technical data

**Tensile bond strength > 1.5 N/mm<sup>2</sup>**

DIN ISO 4624

**Abrasion resistance**

(Taber) 65 mg/1000 cycles

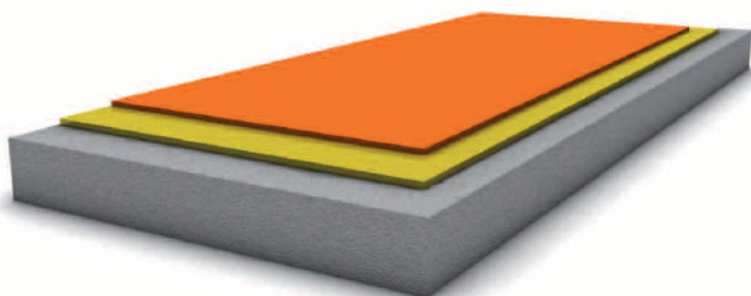
DIN 53109

**Light resistance (scale 1–8 very good = 8) 6**

DIN EN ISO 877

**Water vapour permeability classification III**

DIN EN ISO 7783-2



**Optional: anti-slip sealing**  
Rinol EP S 680A

 **Sealing**  
Rinol EP S 680 1-2 x

 **Primer**  
Rinol EP S 680

 **Substrate**

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**RINOL GFR**

MONO COLOUR QUARTZ SYSTEM

## System characteristics

Scatter floor coating system for concrete and similar substrates.  
3 mm to 4 mm layer thickness

**Temperature stability to 60 °C wet**

## Colour palette

The information is located in the RINOL colour chart

## Properties

- Great mechanical stability far exceeding that of structural concrete
- Outstanding chemical resistance via a special transparent final coating
- Great durability thanks to very good impact, abrasion and scratch resistance
- Watertight
- Seamless floor facilitates servicing and hygiene, as well as increases safety. However building expansion joints must be formed
- Non-skid
- RINOL GFR is characterized by comfort, outstanding visual appearance and a wide variety of colours
- Excellent chemical properties

## Range of applicationse

- Mechanical industry, precision technology
- Microelectronics, Electronics and automotive industry
- Pharmaceutical and chemical industries
- Biotechnology
- Food production and tobacco industry
- Milk processing, slaughterhouses, kitchens
- Sales areas and supermarkets
- Public buildings: hospitals and schools
- Exhibition halls, railway stations and airports

## Technical data

**80 N/mm<sup>2</sup> compressive strength**

DIN 53454

**Tensile bond strength > 2.0 N/mm<sup>2</sup>**

DIN ISO 4624

**27 N/mm<sup>2</sup> flexural strength**

DIN 53452

**Shore D hardness 78**

ISO 868

**14 000N/mm<sup>2</sup> modulus of elasticity (compression test)**

DIN 53454

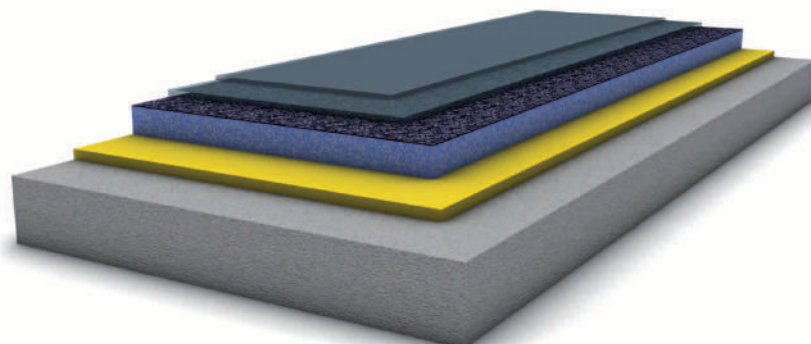
**46x10<sup>-6</sup>/°C linear thermal expansion coef.**

DIN 53752

**Fire protection class B<sub>FL</sub>-S1**

EN 13501-1

**Skid resistance class R10/R12**



**Optional: Sealer matt**  
RINOL PU TS 686



**Transparent top coating**  
RINOL EP QC 714



**Pigmented base coat with natural quartz scattered**  
RINOL EP QC 213 + RINOL QS 20



**Regulating layer**



**Substrate**

### IMPORTANT NOTICE

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# RINOL QCR

## COLOURQUARTZ FLOOR COATING SYSTEM FOR CONCRETE

### System characteristics

Colourquartz floor coating system for concrete and similar substrates.

3 mm to 4 mm layer thickness

**Temperature stability to** 60 °C wet

### Colour palette

Obtainable in various quartzite appearances

### Properties

- Great mechanical stability far exceeding that of structural concrete
- Excellent chemical resistance from a special transparent final coating
- Great durability thanks to very good impact, abrasion and scratch resistance.
- Watertight
- Seamless floor
- Non-skid
- RINOL QCR is characterized by comfort, outstanding visual appearance and a wide variety of colours.
- Excellent chemical resistance

### Range of applications

- Mechanical industry, precision technology
- Pharmaceutical and chemical industries
- Biotechnology
- Food production and tobacco industry
- Milk processing, slaughterhouses, kitchens
- Sales areas and supermarkets
- Public buildings: hospitals and schools
- Exhibition halls, railway stations and airports

### Technical data

**80 N/mm<sup>2</sup> compressive strength**

DIN 53454

**Tensile bond strength > 2.0 N/mm<sup>2</sup>**

DIN ISO 4624

**27 N/mm<sup>2</sup> flexural strength**

DIN 53452

**Shore D hardness 78**

ISO 868

**14 000N/mm<sup>2</sup> modulus of elasticity (compression test)**

DIN 53454

**46x10<sup>-6</sup>/°C linear thermal expansion coef.**

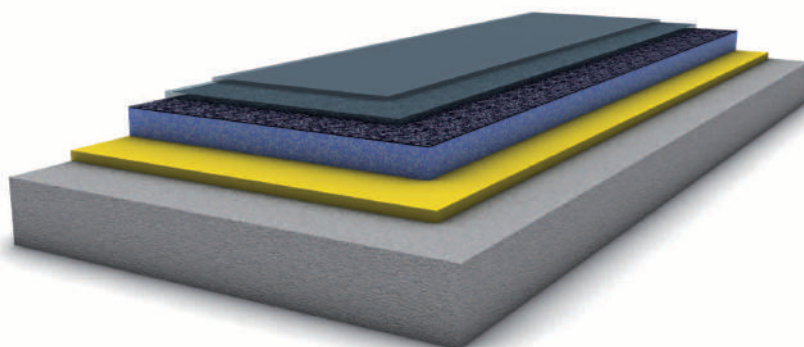
DIN 53752

**Fire protection class B<sub>FL</sub>-S1**

EN 13501-1

**Skid resistance class R10/R11**

Chemical resistance, very good resistance



**Optional: sealer matt**  
RINOL PU-TS686



**Transparent top coating**  
RINOL EP-QC 714



**Pigmented base coat  
scattered with colour quartz**  
RINOL EP-QC 212 + RINOL QCR



**Regulating layer**



**Substrate**

#### IMPORTANT NOTICE

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### System characteristics

Conductive Colourquartz floor coating system with anti-skid surface for concrete and similar substrates.  
4 mm to 5 mm layer thickness

**Temperature stability to** 60 °C wet

### Colour palette

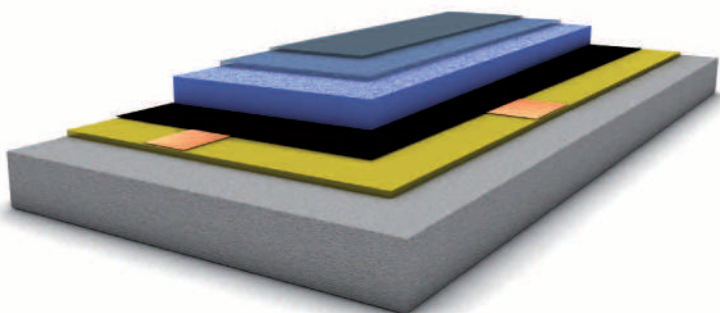
You'll find this information in the RINOL colour chart

### Properties

- Electrically conductive
- Great mechanical stability far exceeding that of structural concrete
- Excellent chemical resistance from a special transparent final coating
- Great durability thanks to very good impact, abrasion and scratch resistance
- Watertight
- Seamless floor facilitates servicing and hygiene, as well as increases safety  
However building expansion joints must be formed
- Non-skid
- RINOL QCR AST is characterized by comfort, outstanding visual appearance and a wide variety of colours

### Range of applicationse

- Pharmaceutical and chemical industries
- Factories for manufacturing electronic parts
- Storage and production halls where remotely controlled transport systems come into use
- Hospitals
- Printing plants



### Technical data

**Resistance to earth ( $R_E/R_G$ )** < 10<sup>6</sup> Ohm

DIN 51953/ DIN EN 1081

**80 N/mm<sup>2</sup> compressive strength**

DIN 53454

**Tensile bond strength** > 1.5 N/mm<sup>2</sup>

DIN ISO 4624

**27 N/mm<sup>2</sup> flexural strength**

DIN 53452

**Shore D hardness 78**

ISO 868

**14 000N/mm<sup>2</sup> modulus of elasticity** (compression test)

DIN 53454

**46x10<sup>-6</sup>/°C linear thermal expansion coef.**

DIN 53752

**Fire protection class B<sub>FL</sub>-S1**

EN 13501-1

**Skid resistance class R10/R11**

Chemical resistance, very good resistance

**Optional: sealer matt**

RINOL PU TS 686



**Transparent top coating**

RINOL EP QC 714



**Pigmented conductive base layer scattered with Colourquartz**

RINOL QC 547AS + RINOL QCR AS



**Conductive primer with copper tape**

RINOL EP QC 484 (alternative: RINOL EP QC 483)



**Regulating layer**



**Substrate**

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# RINOL WHD/WHE

HIGH CHEMICAL RESISTANT COATING

## System characteristics

Two- or three- layer floor coating system, optionally conductive, made of epoxy resin for concrete and similar substrates.

The coating systems have the approval of the Deutsches Institut für Bautechnik<sup>1</sup> (DIBt).

2 mm to 3 mm layer thickness

**Temperature stability to 60 °C**

## Colour palette

RAL 7030 and RAL 7032

Additional colours on request

## Properties

- Crack bridging
- Excellent chemical resistance
- Minimal odour generation during processing
- Electrically conductive (optional)
- Tough and durable
- Smooth, easy-to-clean surface
- Non-dusting
- Seamless

## Range of applicationse

- Chemical industry
- Power plants
- Substations and switching stations
- Electronics industry
- Explosion-protected industrial areas

## Technical data

**58 N/mm<sup>2</sup> compressive strength**

DIN EN 196 / ASTM C 109

**30 N/mm<sup>2</sup> flexural strength**

DIN EN 196 / ASTM C 109

**Tensile bond strength > 1.5 N/mm<sup>2</sup>**

DIN ISO 4624

## Abrasion resistance

Taber CS10 wheel about **65** mg/1000 cycles

DIN 53754 / ASTM D 1044

**Shore D hardness is about 60.**

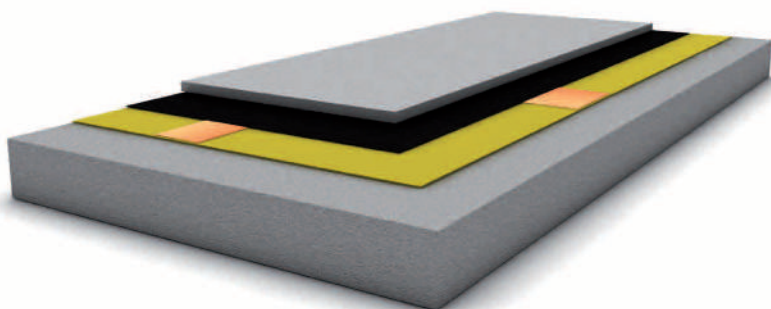
DIN 53505 / ASTM D 2240

**Resistance to earth < 1 MΩ**

DIN 51953/ DIN EN 1081

**Colour stability (scale 1–8, 8 = very good) 6**

DIN EN ISO 877



**Conductive top coat** RINOL EP-C5426AS or **Non-conductive top coat** RINOL EP-C526

**Optional: conductive layer** Rinol EP-E481 (conductive)

**Primer** RINOL EP-P204

**Substrate**

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# RINOL ALLROUNDER PU

THE EXTREMELY VERSATILE FLOOR COATING

## System characteristics

Three-layer (or optional quadruple layer) polyurethane floor-coating system for concrete and similar substrates.  
3 mm to 4 mm layer thickness

## Temperature stability to 60 °C

## Colour palette

The information is located in the RINOL colour chart

## Properties

- Crack bridging
- Minimal odour generation during processing
- Tough and long-lasting
- Hygienic and impermeable
- Meets EU regulations for the food industry
- Smooth or anti-slip surface
- Can be laid with the strictest requirements for levelness
- Seamless
- Good chemical resistance
- UV resistance

## Range of applicationse

- Moderate to heavy loaded industrial floors
- Warehouses
- Storage areas
- Laboratories
- Production areas

## Technical data

### 61 N/mm<sup>2</sup> compressive strength

DIN EN 196 / ASTM C 109

### 45 N/mm<sup>2</sup> flexural strength

DIN EN 196 / ASTM C 109

### Tensile bond strength > 1.5 N/mm<sup>2</sup>

DIN ISO 4624

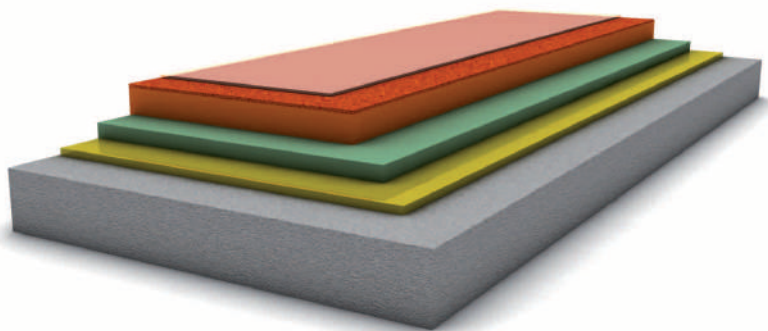
### Abrasion resistance

Taber CS10 wheel 80 mg/1.000 cycles  
DIN 53754 / ASTM D 1044

### Shore D hardness 60

DIN 53505 / ASTM D 2240

Tested acc.  
**AgBB**  
guidelines



 **Sealing pigmented**  
RINOL PU-5686

 **Top coat**  
RINOL PU-C500

 **Levelling layer**  
RINOL PU-L300

 **Primer**  
RINOL EP-P202

 **Substrate**

## IMPORTANT NOTICE

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# RINOL ALLROUNDER PU FLEX

COMFORTABLE-WALKING COATING

## System characteristics

Quadruple-layer, flexible polyurethane floor-coating system for concrete and similar substrates  
3 mm to 4 mm layer thickness

Temperature stability to 60 °C

## Colour palette

Obtainable in most RAL and NCS colours  
You can find additional information in the RINOL colour chart

## Properties

- Minimal odour generation during processing
- Low emissions
- UV resistance
- Sound absorbing
- Tough and long-lasting
- Hygienic and impermeable
- Seamless
- Good chemical resistance
- Elastic

## Range of applicationse

- Lofts
- Office areas
- Reception areas
- Medical practices
- Showrooms
- Schools

## Technical data

**30 N/mm<sup>2</sup> compressive strength**

DIN EN 196 / ASTM C 109

**Tensile bond strength > 1.5 N/mm<sup>2</sup>**

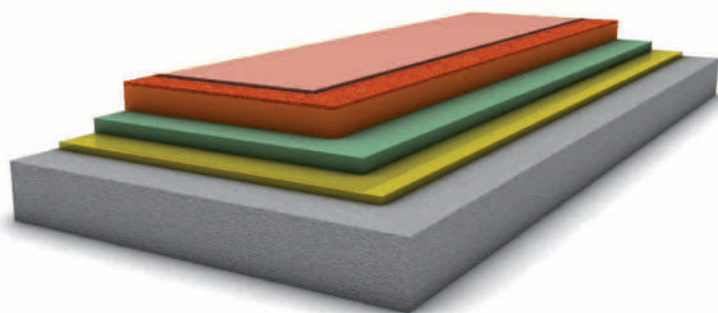
DIN ISO 4624

**Shore A hardness is about 75**

DIN 53505 / ASTM D 2240 (after 28 days)

**Colour stability (scale 1–8, 8 = very good) 7**

DIN EN ISO 877



 **Sealing**  
RINOL PU-S686

 **Top coat**  
RINOL PU-C501

 **Levelling layer**  
RINOL PU-L300

 **Primer**  
RINOL EP-P202

 **Substrate**

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## RINOL COMFORT

ERGONOMIC, ELASTIC COATING

### System characteristics

Four-layer elastic and foot-fall absorbing polyurethane floor coating system for concrete and similar substrates. Cloudy appearance is possible by mixing two or more colour tones.  
3 mm to 4 mm layer thickness

### Temperature stability to 60 °C

### Colour palette

The information is located in the RINOL colour chart

### Properties

- Minimal odour generation during processing
- Low emissions
- UV resistant
- Sound absorbing
- Tough and long-lasting
- Hygienic and impermeable
- Comfortable for walking (easy on the legs and joints)
- Seamless
- Good chemical resistance
- Can be combined with decorative chips
- Elastic

### Range of applicationse

- Office areas
- Reception areas
- Medical practices
- Showrooms
- Canteens
- Schools
- Lofts und living areas

### Technical data

#### 30N/mm<sup>2</sup> compressive strength

DIN EN 196 / ASTM C 109

#### Tensile bond strength > 1.5 N/mm<sup>2</sup>

DIN ISO 4624

#### Abrasion resistance

Taber CS10 Wheel20–30 mg/1000 cycles  
DIN 53754/ASTM D 1044

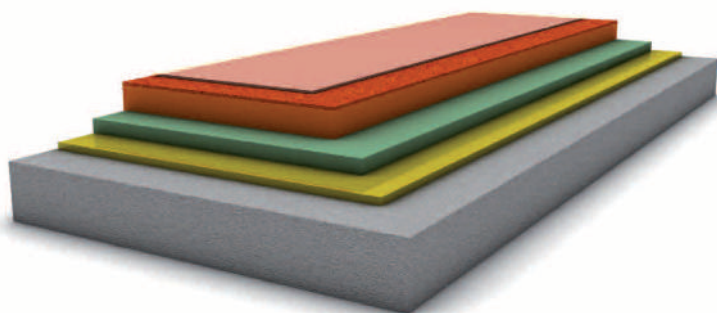
#### Shore A hardness 82






DIN 53505 / ASTM D 2240

#### Colour stability (scale 1–8, 8 = very good) 7

DIN EN ISO 877

Tested acc.  
AgBB  
guidelines



-  **Transparent sealer**  
RINOL PU-TS686 / PU-S686
-  **Top coat**  
RINOL PU-C520
-  **Levelling layer**  
RINOL PU-L300
-  **Primer**  
RINOL EP-P202
-  **Substrate**

#### IMPORTANT NOTICE

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# RINOL COMFORT DESIGN

HIGHLY FUNCTIONAL WITH ATTRACTIVE DESIGN

## System characteristics

Special four-layer polyurethane floor coating system for cement screed, ceramic and similar substrates.  
About 3 mm to 4 mm layer thickness

**Temperature stability to 60 °C**

## Colour palette

Obtainable in various quartzite appearances  
See RINOL DESIGN colour chart

## Properties

- Outstanding aesthetics
- Foot-fall absorbing
- Easy on legs and back
- Hygienic and liquid-tight
- Smooth, easy-to-clean surface
- Seamless
- Minimal odour generation during processing
- UV resistant
- Elastic

## Range of applicationse

- Entrance halls and foyers
- Canteens
- Prestigious areas
- Conference rooms
- Showrooms, exhibition halls
- Schools
- Lofts und living areas

## Technical data

**30 N/mm<sup>2</sup> compressive strength**

DIN EN 196 / ASTM C 109

**14 N/mm<sup>2</sup> flexural strength**

DIN EN 196 / ASTM C 190

**Abrasion resistance**

Taber CS10 wheel 20–30 mg/1000 cycles  
DIN 53754/ASTM D 1044

**Tensile bond strength > 1.5 N/mm<sup>2</sup>**

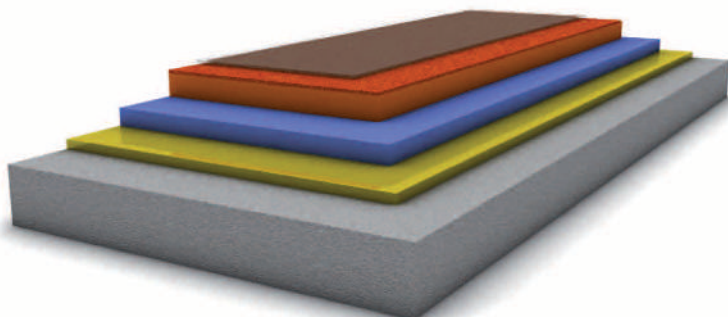
DIN ISO 4624






**Shore A hardness 82**

DIN 53505 / ASTM D 2240

**Colour stability (scale 1–8, 8 = very good) 7**

DIN EN ISO 877



-  **Transparent sealer**  
RINOL PU-TS686
-  **Top coat**  
RINOL PU-C510
-  **Levelling layer**  
RINOL PU-L300
-  **Primer**  
RINOL EP-P202
-  **Substrate**

### IMPORTANT NOTICE

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# RINOL ALLROUNDER UP

HIGH CHEMICAL RESISTANCE

## System characteristics

Triple-layer epoxy- and polyester-resin floor-coating system for concrete and similar substrates.

About 3 mm to 4 mm layer thickness

## Temperature stability to 60 °C

## Colour palette

The information is located in the RINOL colour chart

## Properties

- Tough and long-lasting
- Hygienic and impermeable
- Meets EU regulations
- Smooth surface
- Seamless
- Very good chemical resistance

## Range of applicationse

- Heavily loaded industrial floors
- Hospitals
- Requirement: great chemical resistance
- Production shops

## Technical data

### 90 N/mm<sup>2</sup> compressive strength

DIN EN 196 / ASTM C 109

### 56 N/mm<sup>2</sup> flexural strength

DIN EN 196 / ASTM C 109

### Tensile bond strength > 1.5 N/mm<sup>2</sup>

DIN ISO 4624

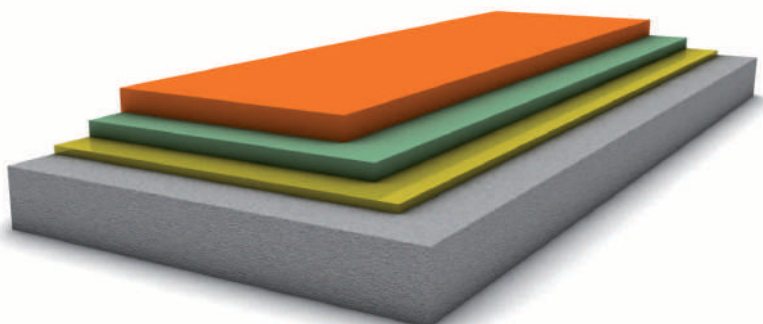
### Abrasion resistance





Taber CS10 wheel 77 mg/1000 cycles

DIN 53754/ASTM D 1044

### Shore D hardness 87

DIN 53505 / ASTM D 2240



-  **Top coat**  
RINOL UP-C500
-  **Levelling layer**  
RINOL UP-L300
-  **Primer**  
RINOL EP-P200
-  **Substrate**

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# CLEANING AND CARE INSTRUCTIONS (\*)

## 1. Preventive measures

A large part of the usual dirt carried in can be avoided using dirt catchments in front of the entrances and cleaning zones in the entrance areas. These should comprise at least two to three step lengths in the property and should be incorporated into ongoing cleaning.

## 2. Final building cleaning

The newly laid floor covering must undergo a final building cleaning prior to use to remove laying- and construction-related residues. Rinol cleaning agent should be used in a 1:10 ratio with water for this. For minor construction contaminations, the concentration can be reduced to match the degree of contamination. Distribute the cleaning solution on the covering and scrub using an SRP monodisc appliance with scrubbing brush or red pad after a work-in time of about 10 minutes. Collect the soiled solution using a spray extractor appliance fitted with hard floor adapter and neutralize the covering with clear water until all cleaning agent residues are completely removed.

## 3. Ongoing cleaning and care

**3.1 Dust removal:** wipe with a damp mop to remove loose dust and dirt.

**3.2 Manual or mechanical wet cleaning:** To remove stubborn dirt, use Rinol cleaner diluted in the corresponding ratio and wet mop the floor with a suitable mop (the Quick Step for example) or using a cleaning machine (e.g. Premium F2). Treat areas to be subjected to regular disinfection and cleaning, with cleaner disinfectant concentrate (tested in accordance with the guidelines of the DGHM and VAH list).

**3.3 Intermediate cleaning:** If wet mopping cannot eliminate stubborn dirt, cleaning with a Rinol cleaning agent diluted to match the degree of contamination is recommended. Cleaning occurs using a scrubber/cleaning machine or the cleaner method. For optimal value maintenance, the cleaned covering should be regularly polished with an SRP2+S monodisc machine and a white pad or polishing brush.

## 4. Removing stains and rubber heel marks

Stubborn stains and rubber heel marks can be removed with undiluted Rinol cleaning agent in conjunction with a scratch-free cloth or white pad. Rinse with clear water afterwards. Remove stains as quickly as possible, because certain types of stains set in the covering during ageing. After that they can be removed only with difficulty or incompletely.

## 5. Basic cleaning

To remove especially stubborn dirt and debris affecting the surface's appearance that cannot be removed with regular cleaning methods, or to prepare the floor for renovation when wear and tear begin to show, basic cleaning of the floor covering with Rinol PUTS/S686 is necessary. To do this, apply Rinol basic cleaning agent with water and scrub the floor using an SRP monodisc appliance with green pad after a work-in time of about 10 to 15 minutes. Use a scrub brush or a red pad if no cover sealing is subsequently scheduled to occur. After completely collecting the soiled solution using a spray extractor appliance fitted with hard floor adapter, neutralize the covering with clear water until all cleaning agent residues are completely removed, if possible (the wash water no longer foams).

### Disclaimer:

All figures are intended as reference values. They are based on our previous experience and careful investigations. In view of the diversity of substrates on the one hand and on the other, we cannot guarantee the tasks' success due to the fact that we have no influence over the cleaning agent's manufacture, application, or processing. In case of doubt, conduct preliminary experiments and contact our technicians if necessary.

(\*) Please request complete or individual cleaning and care instructions only partially documented here from Rinol customer service.

We make mature, balanced system solutions available for your requirements.

We can draw on over 50 years experience with a wide range of epoxy, polyurethane, vinyl ester and polyester resins and combinations of them!

Our systems' most modern standards, regulations and approvals are certified through renowned institutions such as TÜV Rheinland (LGA), Kiwa Polymer Institut, BAM and Eurofins.

We have an extensive primer matrix, a number of impregnations, coatings and sealants all the way up to grout surfaces. Accordingly, we are equipped to meet slip resistance, chemical, thermal and mechanical resistance and conductivity and aesthetics needs.

Our research and development department is always developing new and innovative products and systems for our customers through constant exchange of information with them and continual market analysis.

Almost all of our systems virtually meet the strict requirements for solvent- and nonylphenol-freedom. Our maxim is to meet AgBB (German regulation for low emission coatings) , LEED, or DGNB requirements, especially with indoor use!

Many of our raw materials are based on renewable manufacturing goods.

## IMPORTANT NOTICE

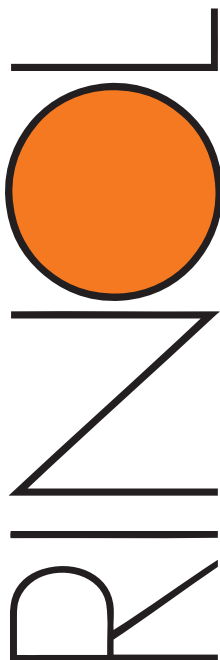
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### ADDITIONAL RINOL SYSTEM BROCHURES:

- ▶ RINOL Parking
- ▶ RINOL Food
- ▶ RINOL Crete
- ▶ RINOL hospital surfaces





## RCR group

The RCR Group—the market leader in aesthetic and industrial floors, certified under DIN EN ISO 9001—is represented in many countries worldwide and has an extensive network of competent and experienced partners for all kinds of synthetic floors.

As part of our module system we are able to offer a comprehensive, complete system of floor coatings from reinforced and unreinforced foundation slabs, through concrete floors and wear layers of various types, to individual highly complex resin coatings for the most stringent requirements.

Wherever you're located, you'll always find an RCR Group partner in your vicinity who will offer you complete service. RINOL specialists are your competent partners from the planning phase and consultation relative to the requirements to be met in your industry, through timely and professional application, to the execution of complete maintenance and service work.

Our coating systems result from decades of experience and constant development work in our laboratories. Of course, these are continuously tested for your safety by independent experts and also possess all major international test certificates.

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