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# INDUSTRIAL FLOORING SOLUTIONS

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SYSTEMARDEX  
PREMIUM PERFORMANCE



# CONSTRUCTION WORLD WITH ARDEX

ARDEX-QUICSEAL Singapore is a manufacturer and solution provider of innovative building systems. We are proud to be a part of the ARDEX Group, founded in Witten, Germany in the 1940's that has now grown to become a global business, providing engineered system solutions for waterproofing, tiling, commercial and industrial flooring.

Today, ARDEX has achieved a worldwide presence through 71 subsidiaries with 3900 employees active internationally. There is strategic production bases located in more than 50 countries in the recent years.

ARDEX offer a complete range of industrial flooring products including concrete toppings, primers, damp proof membranes, epoxies, and polyurethane system suitable for all types of industrial flooring applications.

The range of industrial flooring products is designed to work together as an integrated system for your peace of mind. Each product is the result of research and development with the help of professional contractors to ensure absolute product compatibility and market leading performance. We call this System ARDEX.

A system of high quality, totally compatible products match unparalleled technical and field support. The ARDEX solutions meet the demands of mechanical and chemical stress as well as temperature, to accommodate requirements needed for safety, aesthetic, functionality, comfort and care.

Specifying ARDEX Industrial flooring products and you know you've chosen the most advanced and reliable system solution for cementitious, epoxies, polyurethane flooring design finishes.

In Singapore, all product, raw materials and packaging went through vigorous quality control procedures which, together with quality management system, that have been certified and are independently audited to the Quality standard ISO 9001:2015 and ISO 14001:2015



# PRODUCT INFORMATION

## FLOOR PREPARATION OVERVIEW

A stable bond between the substrate and the ARDEX Industrial flooring system is the key to success when installing the ARDEX products. Concrete floors must be sound as well as clean and free of all foreign contaminants through mechanical preparation. Unprepared and contaminated slabs are the main causes of expensive and avoidable failures.

All substrates must be assessed and tested for moisture. In situations where moisture exceeds 5%, a moisture barrier must be applied to prevent excessive rising moisture issues prior to the application of any floor finishing.

When new or unusual circumstances are encountered on a specific project, please consult the ARDEX Technical service for advice.

## ARDEX AND OUR ENVIRONMENT

As part of our ongoing commitment to the moment, ARDEX is constantly improving the existing range and developing new products to reduce the ecological footprint and improve the indoor air quality of building.

The performance leading and commonly used ARDEX Industrial flooring system products have been independently tested by official Green Building institutions responsible for Southeast Asia and Hazard Analysis Critical Control Point (HACCP) certified.

## OVERVIEW OF PRIMER AND MOISTURE CONTROL PRODUCTS

PRODUCT		ARDEX P 4	ARDEX P 51	ARDEX P 82	ARDEX R 2 E	ARDEX R 3 E	ARDEX WPM 256	ARDEX WPM 300	ARDEX DPM	ARDEX R 213 E
DESCRIPTION		Pre-Mixed, Rapid-Drying, Multipurpose Primer	Concentrated Water-based Primer and Bonding Agent	Synthetic Resin Based Primer	General Purpose solvent free Epoxy Primer	Moisture Tolerant, Solvent Free Epoxy Primer	HydrEpoxy Bonding Bridge	HydrEpoxy Water Based Epoxy Moisture Barrier	Surface Damp Proof Membrane - Residual Moisture Suppressant	Self-Smoothing Epoxy Cement Mortar Floor Screed
PROPERTIES & DESIGN	Primer	●	●	●	●	●	●			
	Substrate Strengthenener				●	●			●	
	Sealing	●	●	●	●	●	●	●	●	●
	Bonding Bridge	●	●	●	●	●	●			
	Moisture Barrier							●	●	●
	Level Corrective									●
SUBSTRATE TYPE	Absorbent	●	●	●	●	●	●	●	●	●
	Non-absorbent	●	●	●	●	●				

# ARDEX SYSTEM & RECOMMENDATION

## OVERVIEW OF COATING AND TOPPING SYSTEM

ARDEX SYSTEM		CEMENTITIOUS SYSTEM			EPOXY SYSTEM							POLYURETHANE SYSTEM				
		SYSTEM 1 ARDEX CL 5	SYSTEM 2 ARDEX 308	SYSTEM 3 ARDEX 318	SYSTEM 4 ARDEX R 30 E	SYSTEM 5 ARDEX R 35 E	SYSTEM 6 ARDEX R 36 E	SYSTEM 7 ARDEX R 25 E	SYSTEM 8 ARDEX R 76 E	SYSTEM 9 ARDEX R 100 E	SYSTEM 10 ARDEX R 150 E	SYSTEM 11 ARDEX R 625 E	SYSTEM 12 ARDEX R 160 P	SYSTEM 13 ARDEX R 74 P	SYSTEM 14 ARDEX R 90 P	SYSTEM 15 WPM 426 + WPM 429
PROPERTIES & DESIGN	Smooth Finish	●			●	●	●	●	●	●	●	●	●			●
	Texture Finish		●	●	●	●	●					●			●	●
	Crack Bridging															●
	Electrostatic Conductive											●				
	Internal Application	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	External Application		●	●									●			●
INDUSTRIAL ENVIRONMENT	Electronics				●	●	●	●	●			●	●			
	Pharmaceuticals					●	●	●	●			●	●	●	●	
	Carparks	●	●	●	●	●						●				●
	Food & Beverage Industries				●									●	●	
	Warehousing	●	●	●		●	●			●	●			●	●	
	Aerospace					●	●	●	●	●	●					
	Automotive					●	●	●	●	●	●	●	●			●
	Data Centre				●	●	●	●	●		●	●	●			
	Clean Room				●	●	●	●	●		●		●			
	Cold Room													●	●	





# USER GUIDE

## ARDEX HIGH STRENGTH TOPPING

## ARDEX CL 5



High strength self levelling, rapid drying overlayment cementitious system for hard wearing and abrasion floor; thickness 5 to \*35mm.

\* Please consult our sales representative or technical advisors.

### BENEFITS:

- Fine & smooth surface
- Fast track application
- Sets to traffic within few hours of application
- Good abrasion and hard wearing
- Easy application

### AREAS OF USE:

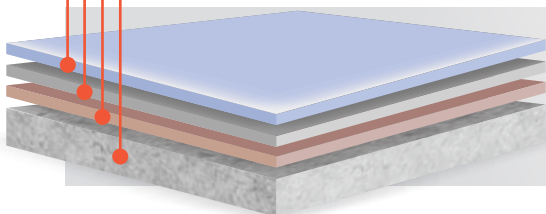
- Industrial warehouse
- Commercial area
- Indoor carpark or garage

Sealer: ARDEX R 65 P / 330

Topping: ARDEX CL 5 + ARDEX E 26

Primer: ARDEX P 51 / R 2 E

Substrate: Concrete



# ARDEX ACRYLIC POLYMER CEMENTITIOUS COATING

## ARDEX 308



Two component comprising of a polymer emulsion latex and special cement with specially graded fillers and additives. It is suitable for all type of resurfacing, patching and repairing of concrete surface.

### BENEFITS:

- Easy to use
- Weathering resistant
- Good adhesion to concrete
- Abrasion and impact resistant
- Good flexural and tensile strength

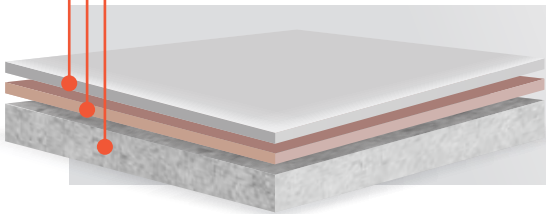
### AREAS OF USE:

- Topping of new and old concrete floors with skid and wear resistance
- Resurfacing of worn-out concrete floors
- Suitable for light traffic

**Topping:** ARDEX 308

**Primer:** ARDEX P 51 / R 2 E

**Substrate:** Concrete



# ARDEX RAPID SETTING ACRYLIC POLYMER CEMENTITIOUS COATING

## ARDEX 318



Two component polymer modified cementitious coating with rapid setting and fiber-reinforced features. Suitable for internal and external application.

### BENEFITS:

- Ready for traffic in 2 hours
- Excellent wearing resistant
- Weathering resistant
- Excellent adhesion to concrete
- High flexural and compressive strength
- Suitable for foot and vehicle traffic

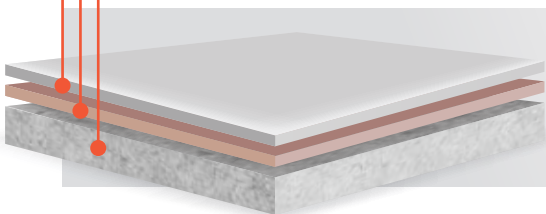
### AREAS OF USE:

- Industrial warehouse / driveway
- Commercial area
- Indoor and outdoor carpark or garage

**Topping:** ARDEX 318

**Primer:** ARDEX P 51 / R 2 E

**Substrate:** Concrete



# ARDEX WATER-BASED EPOXY COATING ARDEX R 30 E



Two component water-based epoxy coating for floor and wall application. It penetrates onto the substrates and forms as a surface hardener and dust proofer.

### BENEFITS:

- Low odour
- Cost-effective
- Satin finishes
- For internal use

### AREAS OF USE:

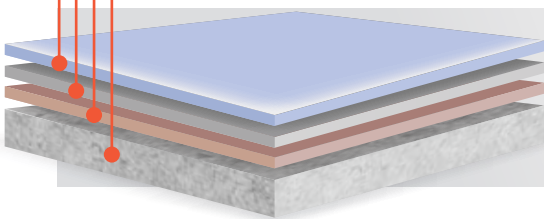
- Garages and industrial workshops
- Retail stores and other commercial spaces
- Carparks
- Food and beverages environment

**Final Coat: ARDEX R 30 E**

**Intermediate Coat: ARDEX R 30 E**

**Primer: ARDEX R 2 E / R 30 E**

**Substrate: Concrete**



# ARDEX HIGH BUILD EPOXY COATING ARDEX R 35 E



High performance solvent free epoxy floor coating. It produces a tough, hard-wearing surface with easy maintenance. ARDEX R 35 E is designed for use as multi-layer coating or 1mm self-levelling application.

### BENEFITS:

- Good mechanical resistant
- Good chemical resistant
- Durable and hard-wearing
- Gloss finishes
- For internal use

### AREAS OF USE:

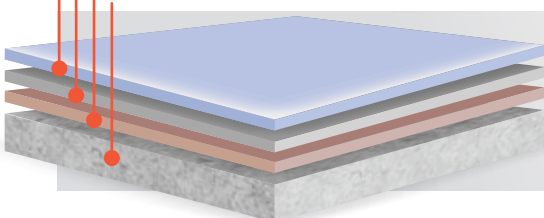
- Industrial workshops
- Production area
- Hospital and pharmaceutical
- Carparks

**Final Coat: ARDEX R 35 E**

**Intermediate Coat: ARDEX R 35 E**

**Primer: ARDEX R 2 E**

**Substrate: Concrete**



# ARDEX HIGH CHEMICAL RESISTANCE NOVALAC EPOXY COATING

## ARDEX R 36 E



High performance two component solvent free novalac epoxy resin that provides a high build, tough and maximum chemical resistant surface. It is suitable for light and high traffic areas and available in a wide range of colours.

### BENEFITS:

- Excellent chemical resistant
- Hard wearing - durable
- Easy for maintenance
- High gloss finishes
- For internal uses

### AREAS OF USE:

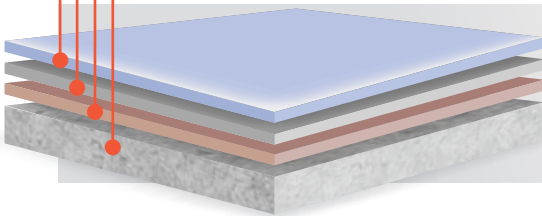
- Bund wall areas
- Sumps and pits
- Storage areas
- Processing and assembly areas
- Industrial clean rooms and factories
- Laboratories

**Final Coat:** ARDEX R 36 E

**Intermediate Coat:** ARDEX R 36 E

**Primer:** ARDEX R 2 E

**Substrate:** Concrete



# ARDEX SELF-SMOOTHING EPOXY SYSTEM

## ARDEX R 25 E



Class leading solvent free self-smoothing epoxy floor system. It forms a very smooth, attractive, hygienic hard-wearing and chemical resistant floor. Thickness application from 2mm - 4mm under industrial requirement.

### BENEFITS:

- Seamless
- High mechanical resistant
- High chemical resistant
- Durable and hard-wearing
- Gloss finishes
- For internal use

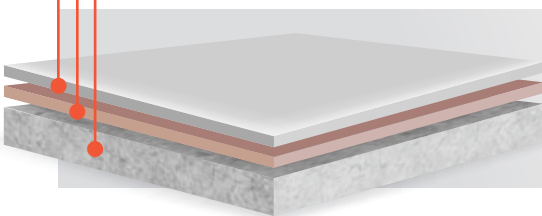
### AREAS OF USE:

- Industrial clean rooms
- Laboratories
- Production and packing areas
- Hospital and pharmaceutical
- Commercial and residential areas

**Final Coat:** ARDEX R 25 E

**Primer:** ARDEX R 2 E

**Substrate:** Concrete





# ARDEX HIGH CHEMICAL RESISTANCE NOVALAC SELF-SMOOTHING EPOXY SYSTEM

## ARDEX R 76 E



Excellent chemical resistant solvent free novalac self-smoothing epoxy floor systems. It produces a smooth, seamless, hygienic surfaces with excellent mechanical and abrasion resistant floor. Thickness application from 1.5mm - 2mm under industrial requirement.

### BENEFITS:

- High mechanical resistant
- Excellent abrasion resistant
- Excellent mechanical resistant
- Hard wearing and durable
- For internal use
- Gloss finishes

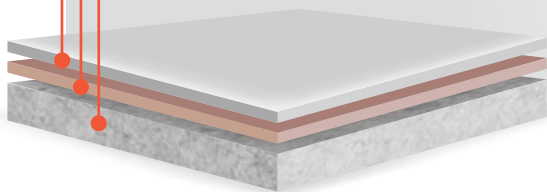
### AREAS OF USE:

- Industrial clean rooms
- Laboratories
- Production and packing areas
- Hospital and pharmaceutical
- Storages and warehouses

**Final Coat: ARDEX R 76 E**

**Primer: ARDEX R 2 E**

**Substrate: Concrete**



# ARDEX MULTIPURPOSE EPOXY SYSTEM

## ARDEX R 150 E



Two component, solvent free clear epoxy binder that provides excellent bond strength, good chemical and mechanical resistance. It is a multipurpose epoxy coating and system for various applications. An additional colour pack will be provided when required.

### APPLICATION RANGE

- Primer
- Coating or sealer
- Self-levelling

### BENEFITS:

- Versatile application
- Excellent adhesion to wide range substrates
- Easy application
- Chemical and mechanical resistance

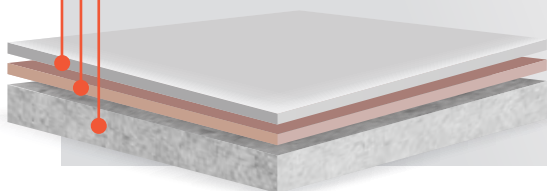
### AREAS OF USE:

- Industrial clean rooms
- Laboratories
- Production and packing areas
- Hospital and pharmaceutical
- Commercial and residential areas

**Final Coat: ARDEX R 150 E (coating or self levelling)**

**Primer: ARDEX R 150 E**

**Substrate: Concrete**



# ARDEX HEAVY DUTY EPOXY SCREED SYSTEM

## ARDEX R 100 E



Three component high performance, solvent free epoxy flooring system specifically developed for a wide range of applications. It is an epoxy screed binder system which forms an anti-slip, tough, hygienic, abrasion and chemical resistant floor topping of exceptional mechanical strength.

### BENEFITS:

- High compressive strength
- Excellent bonding strength
- Slip resistant
- Excellent mechanical resistant

### AREAS OF USE:

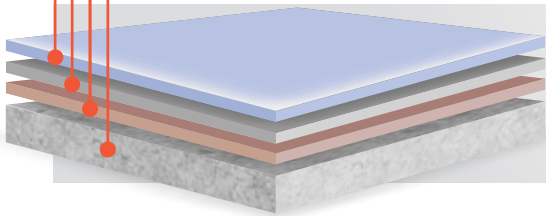
- Loading & unloading bay
- Production and packing / unpacking areas
- High mechanical traffic areas

**Final Coat:** ARDEX Resinous Coatings

**Intermediate Coat:** ARDEX R 100 E

**Primer:** ARDEX R 2 E

**Substrate:** Concrete



# ARDEX ANTI-STATIC EPOXY SYSTEM

## ARDEX R 625 E



Seamless, self-smoothing, solvent free, anti-static epoxy flooring system with excellent conductive properties. The cured conductive epoxy flooring exhibits an attractive joint free finish with chemical resistance and decorative properties.

### BENEFITS:

- Electrostatically conductive
- Excellent abrasion resistant
- Excellent mechanical resistant
- Hard wearing and durable

### AREAS OF USE:

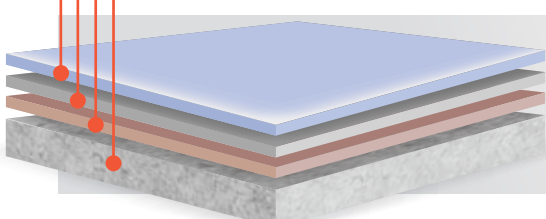
- Industrial workshops, hospitals, operating theatres
- Computers, conductive zones
- Electronics factories
- Clean rooms

**Final Coat:** ARDEX R 625 Self Levelling

**Intermediate:** Copper tape and earthing point installation

**Primer:** ARDEX R 625 Primer

**Substrate:** Concrete



# ARDEX POLYURETHANE COATING

## ARDEX R 160 P



Two component polyurethane coating based that is available in coloured / clear; gloss, matt, satin ready to use solvent-based with high-quality polyester branched polyurethane resin. It is suitable for both interior and exterior wall & floor applications.

### BENEFITS:

- Hygienic, easy to clean
- High chemical resistant
- UV stable
- Hard wearing floors

### AREAS OF USE:

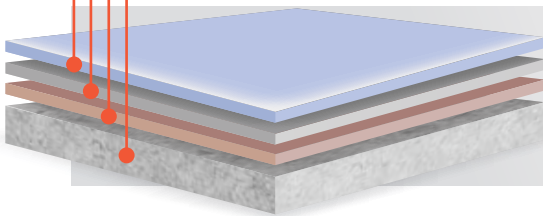
- Industrial and commercial floor and wall
- Car park decks
- Warehouses
- Laboratories and clean rooms
- Pharmaceutical other industrial plants sectors

**Final Coat:** ARDEX R 160 P

**Intermediate Coat:** ARDEX R 160 P

**Primer:** ARDEX R 2 E

**Substrate:** Concrete



# ARDEX POLYURETHANE SMOOTH SCREED SYSTEM

## ARDEX R 74 P



Four component polyurethane floor system. Self-smoothing, seamless, chemical resistance, high mechanical properties, heat and slip resistance with matt decorative finish from 3mm - 6mm thickness.

### BENEFITS:

- Resists fungi, mildew and bacteria growth
- High chemical resistant
- Abrasion resistant
- Hard wearing floors

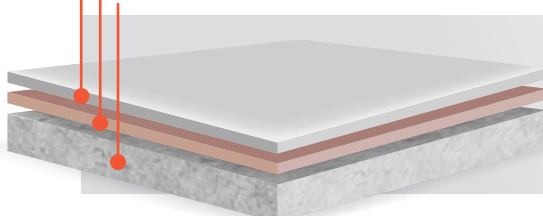
### AREAS OF USE:

- Food and beverage processing areas
- Pharmaceutical plant
- Warehouse and packaging plants
- Battery rooms
- Electronic component manufacture and assembly areas

**Final Coat:** ARDEX R 74 P

**Primer:** ARDEX R 74 P Scratch Coat

**Substrate:** Concrete



# ARDEX POLYURETHANE HEAVY-DUTY SYSTEM

## ARDEX R 90 P



Five component polyurethane floor system. Specialist applied with rake and trowel grade, polyurethane resin floor finish, combining outstanding wearing properties with high chemical resistance and decorative texture surfaces from 6mm - 12mm thickness.

### BENEFITS:

- Resists fungi, mildew and bacteria growth
- High chemical resistant
- Abrasion resistant
- Thermal shock resistance
- Hard wearing floors

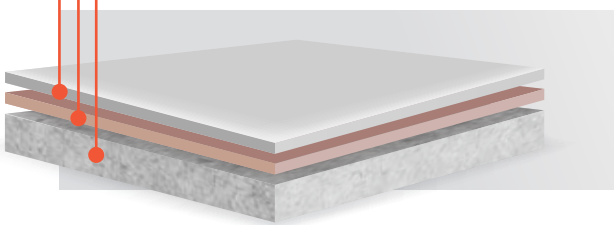
### AREAS OF USE:

- Food and beverage processing areas
- Pharmaceutical plant
- Warehouse and packaging plants
- Electronic component manufacture and assembly areas
- Cold rooms

**Final Coat:** ARDEX R 90 P

**Primer:** ARDEX R 74 P Scratch Coat

**Substrate:** Concrete



# ARDEX POLYURETHANE DECK SYSTEM

## ARDEX WPM 426 & WPM 429



ARDEX traffic deck system comprising of a two-component polyurethane intermediate waterproofing coating and over coated with a UV stable polyurethane topcoat. ARDEX TD decking system is a specialised application of elastomeric waterproof coatings designed to accommodate within normal structural movements.

### BENEFITS:

- Heavy-duty wear & abrasion resistance
- Flexible with excellent crack bridging capability
- Water & vapor barrier membrane
- Good chemical resistant

### AREAS OF USE:

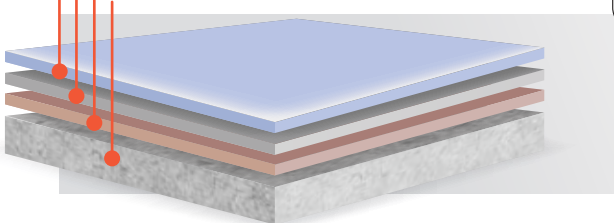
- Commercial car parks and ramps
- Balconies, walkways, stadium, helipads
- Roof decks
- Parking garages, Plant rooms, industrial floors

**Final Coat:** ARDEX WPM 429

**Intermediate Coat:** ARDEX WPM 426

**Primer:** ARDEX R 2 E

**Substrate:** Concrete



# ARDEX MOISTURE TOLERANT SYSTEM IN CONJUNCTION WITH ARDEX INDUSTRIAL FLOORING SYSTEM

## OPTION 1

### ARDEX R 213 E Epoxy Modified Cementitious Self-levelling Floor Coating, Temporary Moisture Barrier and Underlayment

ARDEX R 213 E is a three component epoxy modified cementitious self-levelling floor coating, temporary moisture barrier and underlayment. As a corrective screed / underlayment for cementitious or mineral based substrate, it is recommended as a temporary moisture barrier applied to a minimum of 2mm - 4mm for epoxy and polyurethane or others floor toppings.

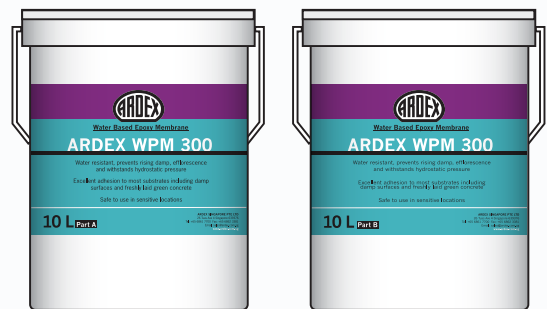


## OPTION 2

### ARDEX WPM 300 Substrate Moisture Barrier and Green Slab Primer

ARDEX WPM 300 is an epoxy moisture barrier that will suppress excessive moisture vapour in new, or existing concrete slabs.

Not only does ARDEX WPM 300 safeguard your finished floor against moisture, you can save money and time by fast tracking projects — no more expensive moisture test or waiting for slabs to dry.





### OPTION 3

## ARDEX DPM Surface Damp Proof Membrane - Residual Moisture Suppressant

ARDEX DPM is solvent free, low viscosity, two component epoxy resin. After hardening, the ARDEX DPM produces a membrane with high inherent strength and excellent bond strength to appropriate substrates including very damp concrete and screeds.

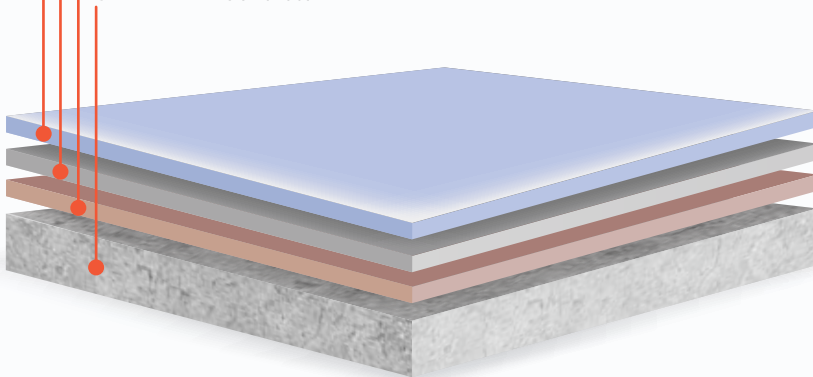


**Final Coat:** ARDEX INDUSTRIAL FLOORING SYSTEM

**Intermediate Coat:** ARDEX MOISTURE CONTROL SYSTEM OPTION 1, 2 OR 3

**Primer:** To be advised

**Substrate:** Concrete



# ARDEX INDUSTRIAL FLOORING STANDARD COLOUR CHART

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ARDEX R 30 E



RAL 7001



RAL 7023



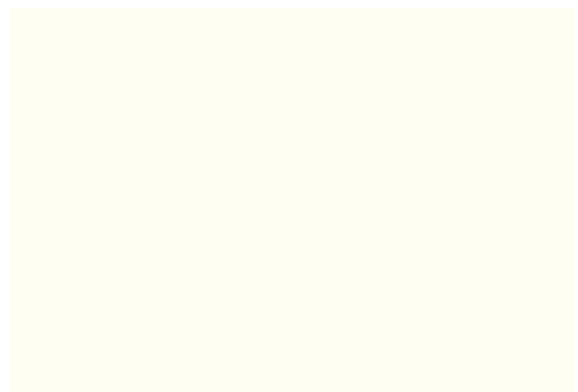
RAL 7030



RAL 7035



RAL 6002



RAL 9010

- All colours shown represent the best approximations of product colours achieved at point.
- For special colours, please refer to RAL colour cards.
- The actual colours of the products installed at the job site may differ from the colour shown in the colour chart due to substrate condition and texture, job site conditions, product preparation, installation methods, lightings, etc.

# ARDEX INDUSTRIAL FLOORING STANDARD COLOUR CHART

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ARDEX R 25 E, ARDEX R 35 E, ARDEX R 36 E, ARDEX R 76 E, ARDEX R 150 E AND ARDEX R 160 P



RAL 7001



RAL 7030



RAL 7035



RAL 7036



RAL 7038



RAL 7039



RAL 7044



RAL 7046



RAL 6010



RAL 6032



RAL 5012



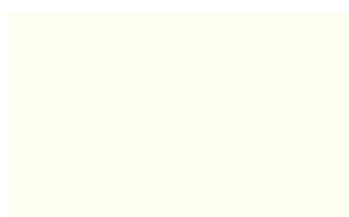
RAL 5017



RAL 1003



RAL 3001



RAL 9010

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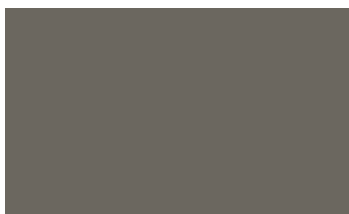
# ARDEX INDUSTRIAL FLOORING STANDARD COLOUR CHART

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ARDEX R 74 P AND ARDEX R 90 P



GREEN



GREY



BUFF



CREAM



BRILLIANT BLUE



LIGHT GREY



YELLOW



RED



TRAFFIC GREY



ORANGE BROWN

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- The actual colours of the products installed at the job site may differ from the colour shown in the colour chart due to substrate condition and texture, job site conditions, product preparation, installation methods, lightings, etc.





### Singapore

#### ARDEX-QUICSEAL SINGAPORE PTE. LTD.

No. 7 Eunos Avenue 8A  
Singapore 409460  
Tel: +65 6861 7700  
Fax: +65 6741 4666  
Email: sales@ardex-quickseal.com

#### SINGAPORE PLANT

No. 26 Tuas Avenue 4  
Singapore 639376  
Fax: +65 6862 3381

### Malaysia

#### ARDEX QUICSEAL MALAYSIA SDN. BHD. (538913-T)

No. 35-1, Jalan Puteri 2/3 Bandar Puteri,  
47100 Puchong, Selangor Darul Ehsan.  
Tel: +603 8069 1139  
Fax: +603 8052 3223  
Email: sales@ardex-quickseal.com

#### MALAYSIA PLANT

No 15 Jalan Desa Tropika 2/2,  
Taman Perindustrian Tropika,  
81800 Ulu Tiram, Johor.  
Tel: +607 8620 833, +607 8620 633  
Fax: +607 8620 793

### Thailand

#### ARDEX (THAILAND) CO., LTD

969 2nd Floor Moo, 13, Soi 45, Bangna-Trad Road Bangkaew,  
Bangplee, Samutprakarn 10540  
Thailand  
Tel: +66 2316 3069  
Fax: +66 2316 3075  
Email: sales@ardex.co.th

### Vietnam

Mobile: +84 901 351 308  
Email: sales@ardex-quickseal.com

[www.ardex-quickseal.com](http://www.ardex-quickseal.com)



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