

Tomorrows Floors Today



# Dencoat Ultimate Industrial floors



Specific individual needs coupled with time sensitive deadlines requires special knowledge and specialised products to cover all modern flooring needs. The advice given should always represent the best solution to satisfy your demands!

Selecting the correct type of floor is just one aspect in finding the optimal solution. Trusting the company who is advising, supplying and installing the end product is even more important.

Some resin based floors currently on the market do not live up to their customers expectations. This is not surprising considering there are so many different

products available. Specifying an Dencoat™ floor ensures the most appropriate floor is installed first time. Our floors have been installed successfully throughout Europe, North America, Australia and in many of countries.

### Industrial floor toppings and coatings

Dencoat™ has a strong experience in manufacturing and installing resin based flooring systems, and is renowned as one of the leading experts in the field. Our wide range of product and global market knowledge enables us to provide tailor made solutions to meet your specific needs. With our latest

technological developments in epoxy, polyurethane and MMA resin systems, Dencoat™ systems strives to provide the ultimate of what can be achieved.

### From the idea...

to the drawing board and through to completion, Dencoat™ is your most experienced and qualified partner. We provide fully integrated and complete systems, customised and installed by an Dencoat™ group company or by one of our Dencoat™ certified contractors.

## Denpox When the going gets tough - the tough

Denpox™ is a comprehensive series of industrial floors, the finish of which can be adapted to most specific needs. The Denpox™ is a 2-component epoxy resin seamless floor with excellent chemical resistance and very high compressive strength. The surface ranges from an even, slick surface to rugged non-skid design. Antistatic skills and ESD capabilities are also features to consider with Denpox™. Apart from the complying for heavy machinery and tough traffic, the Denpox<sup>™</sup> also looks nice and is convenient to walk on with a minimum af dust - important not least in graphic print shops as well as hygiene demanding foodprocessing environments. Many people claim to have achieved relief to their back-problems, due to the softer surface to walk on. Denpox™ is ideal in all environments - from the productions line with hard wear and tear to the sophisticated, representative sales set-up deco. Denpox™ gives a homogeneous even, overall impression of high professional esteem to any environment.



### Den Coat Tomorrows Floors Today

## Denpox<sup>™</sup> Industry (4-6 mm)

A three pack, solvent free epoxy resin based flooring material. Denpox™ Industry 4 - 6 mm is ideal for areas, with high hygienic demands. It is recommended for industrial environments, which are subject to heavy mechanical and chemical wear. The floor is easy to maintain, and is used for industrial production, chemical industry, slaughter houses and other food industries, breweries, etc.

### **Benefits**

- Non slip finish if required
- High impact resistance
- Seamless and hygienic finish
- Very good chemical resistance
- Easy to clean and sterilise
- Low maintenance cost
- Attractive appearance
- High abrasion resistance
- Solvent free; low odour

### Scope of use

- Food industries
- Chemical industry
- Breweries
- Slaughter houses



For more colors please see separate color chart.



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Denpox<sup>™</sup> Industry is a multicoloured floor which can be produced with a non slip finish as required.

### Life Expectancy

10 - 20 years.

### **Application**

To provide a medium to heavy duty, easy to clean, chemical resistant flooring. The non slip finish can be adjusted to clients need. Typical uses are process, manufacturing, packaging and warehousing areas subjected to heavy wear and pallet truck traffic.

### **Application conditions**

Temperature 10°C to 30°C, best 15 to 25°C, max. moisture content in the concrete subfloor 5% by weight.

### **Temperature Resistance**

Denpur<sup>™</sup> Industry is resistant to temperature cycles up to 70°C. Extended periods at these temperatures and above will make material susceptible to chemical attack and abrasion wear.

### Colours

See separate color chart.









### **Properties**

Fully cured at 20°C Applied thickness **Water Permeability** 

Hardness

Compressive strength Reaction to fire Bond strength

Temperature resistance

Thermal expansion coefficient

Abrasion resistance

Thermal conductivity

Slip resistance

**Food Contact** 

### **Value**

7 days 4 - 6 mm

Nil – Karsten test (impermeable)

SHORE D 80

40 MPa

 $B_{fl} - S_1$ 

>1.5 MPa

Up to 70°C at 4 mm

<38 ppm

50 mg / 1000 cycles (Taber Abrader)

 $< 0.6 \text{ W/m} \cdot \text{K}$ 

R9 - R13

No contamination

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## Denpox Compact (3-5 mm)

A three pack, solvent free epoxy resin based flooring material. Denpox™ Compact 3 - 5 mm is ideal for industrial areas, which are subject to heavy mechanical and chemical wear, with high hygienic demands. At the same time the floor is easily cleanable and therefore very suitable for industrial production, chemical production, slaughterhouses, food industry, breweries, etc.

### **Benefits**

- Seamless & hygienic finish
- Very good chemical resistance
- Easy to clean & sterilise
- Low maintenance cost
- Attractive appearance
- High abrasion resistance
- Solvent free; low odour
- Fast installation

### Scope of use

- Food industries
- Chemical industry
- Breweries
- Slaughter houses





Denpox<sup>™</sup> Compact is a smooth multicoloured floor which can be produced with a matt or glossy finish.

### Life Expectancy

10 - 15 years.

### Application

To provide a medium to heavy duty, easy to clean, chemical resistant flooring. Smooth finish glossy or matt surface. Typical uses are dry and wet process areas, manufacturing, packaging and warehousing areas subjected to heavy wear and pallet truck traffic.

### **Application conditions**

Temperature 10°C to 30°C, best 15 to 25°C, max. moisture content in the concrete subfloor 5% by weight.

### **Temperature Resistance**

Denpur™ Compact is resistant to temperature cycles up to 70°C. Extended periods at these temperatures and above will make material susceptible to chemical attack and abrasion wear.

### Colours

Available in a range of standard mixes, see the "Colour Quartz" range.









### **Properties**

Fully cured at 20°C Applied thickness **Water Permeability** 

Hardness

Compressive strength Reaction to fire Bond strength

Temperature resistance

Thermal expansion coefficient

Abrasion resistance

Thermal conductivity

Slip resistance

**Food Contact** 

### **Value**

7 days 3 - 4 mm

Nil – Karsten test (impermeable)

SHORE D 80

40 MPa

 $B_{fl} - S_1$ >1.5 MPa

Up to 70°C at 4 mm

<38 ppm

50 mg / 1000 cycles (Taber Abrader)

 $< 0.6 \text{ W/m} \cdot \text{K}$ 

R9 - R13

No contamination

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## Denpox Structure (6-15 mm)

A three pack, solvent free epoxy resin based flooring material. Denpox™ Structure 6 - 15 mm is ideal for areas, where decorative surfaces are wanted. The floor is very easy to maintain and easily cleanable and makes the working environments presentable. It is being recommended for usage in for instance exhibition rooms, show rooms, shopping rooms and corridor areas, etc.

### **Benefits**

- Attractive appearance
- Aestetic and pleasing finish
- Seamless & clean look
- Low maintenance cost
- Solvent free; low odour

### Scope of use

- Exhibition rooms
- Show rooms
- Shopping rooms
- Corridor areas





Denpur<sup>™</sup> Structure is a decorative floor build up with coloured or natural stones which may be varied as required.

### Life Expectancy

10 - 20 years.

### **Application**

Decorative and wear resistant stone floors for receptions, exhibition areas, shops and show rooms. All kind of decorative effects are possible by varying the coloured and natural stone mix. Not recommended for areas exposed to heavy soiling and large physical load.

### **Application conditions**

Temperature 10°C to 30°C, best 15 to 25°C, max. moisture content in the concrete subfloor 5% by weight.

### **Temperature Resistance**

Denpur™ Structure is resistant to temperature cycles up to 70°C. Extended periods at these temperatures and above will make the material susceptible to chemical attack and abrasion wear.

### Colours

Colours Available in a range of standard mixes, see the "Colour Structure" range.







**Value** 

7 days

6 - 15 mm



### **Properties**

Fully cured at 20°C Applied thickness **Water Permeability** 

n.a. Hardness SHORE D 80 Compressive strength 40 MPa Reaction to fire  $B_{fl} - S_1$ Bond strength >1.5 MPa

Temperature resistance Up to 70°C at 4 mm

Thermal expansion coefficient <38 ppm

50 mg / 1000 cycles (Taber Abrader) Abrasion resistance

Thermal conductivity  $< 0.6 \text{ W/m} \cdot \text{K}$ Slip resistance R9 - R13

**Food Contact** No contamination

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## Denpox<sup>™</sup> Terrazzo (6-15 mm)

A three pack, solvent free epoxy resin based flooring material.

Denpox™ Terrazzo 6 - 15 mm is ideal for areas, where massive decorative surfaces are wanted. The floor is very easy to maintain and easily cleanable and makes the working environments presentable. It is being recommended for usage in for instance airport terminals, supermarkets, exhibition rooms, show rooms, etc.

### **Benefits**

- High impact resistance
- Seamless and hygienic finish
- Very good chemical resistance
- Easy to clean and sterilise
- Low maintenance cost
- Attractive appearance
- High abrasion resistance
- Solvent free; low odour
- Fast installation

### Scope of use

- Airport terminals
- Supermarkets
- Exhibition rooms
- Show rooms





Denpox<sup>™</sup> Terrazzo is a decorative floor build up with coloured epoxy and natural stones which may be varied as required.

### Life Expectancy

More than 20 years.

### Application

Decorative and wear resistant terrazzo floors for airport terminals, railway stations, supermarkets, exhibitions areas etc. All kind of decorative effects are possible by varying the the background colour and the stonemix.

### **Application conditions**

Temperature 10°C to 30°C, best 15 to 25°C, max. moisture content in the concrete subfloor 5% by weight.

### Temperature Resistance

Denpox<sup>™</sup> Terrazzo is resistant to temperature cycles up to 70°C. Extended periods at these temperatures and above will make the material susceptible to chemical attack and abrasion wear.

### Colours

Available in a range of standard mixes, see the "Colour Terrazzo" range.









### **Properties**

Fully cured at 20°C Applied thickness **Water Permeability** 

Hardness

Compressive strength Reaction to fire

Bond strength

Temperature resistance

Thermal expansion coefficient

Abrasion resistance

Thermal conductivity

Slip resistance

**Food Contact** 

### **Value**

7 days 6 -15 mm

Nil – Karsten test (impermeable)

SHORE D 80

40 MPa

 $B_{fl} - S_1$ 

>1.5 MPa

Up to 70°C at 4 mm

<38 ppm

50 mg / 1000 cycles (Taber Abrader)

< 0,6 W/m·K

R9 - R13

No contamination

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## Denpox<sup>™</sup> Topfloor (2-4 mm)

A two pack, solvent free epoxy resin based flooring material.

Denpox™ Topfloor 2-4 mm is being used for dry industrial areas, which are subject to normal wear. The floor has a high wear resistance, chock-proof resistance and chemical resistance. At the same time the floor is easy to maintain, and it can be used for storehouses, laboratories, schools, hospitals and other light industries.

### **Benefits**

- Non slip finish if required
- High impact resistance
- Seamless and hygienic finish
- Very good chemical resistance
- Easy to clean and sterilise
- Low maintenance cost
- Attractive appearance.
- High abrasion resistance
- Solvent free; low odour
- Fast installation

### Scope of use

- Manufacturing areas
- Warehouses
- Packaging rooms





Denpox<sup>™</sup> Topfloor is a smooth floor with a glossy finish.

### Life Expectancy

10 - 15 years.

### Application

Denpox<sup>™</sup> Topfloor floorings offers excellent wearability, impact and chemical resistance. Denpox<sup>™</sup> Topfloor is easy to clean and maintain in a hygienic condition. Typical areas of use are workshops, warehouses, exhibition areas, laboratories, canteens, bathroom facilities, offices and corridors.

### Application conditions

Temperature 10°C to 30°C, best 15 to 20°C, max. moisture content in the concrete subfloor 5% by weight.

### Temperature Resistance

Denpox<sup>™</sup> Topfloor is resistant to temperature cycles up to 70°C. Extended periods at these temperatures and above will make material susceptible to chemical attack and abrasion wear.

Available in a range of standard mixes, see the "Colour" range.









### **Properties**

Fully cured at 20°C Applied thickness **Water Permeability** 

Hardness

Compressive strength Reaction to fire Bond strength

Temperature resistance

Thermal expansion coefficient

Abrasion resistance

Thermal conductivity

Slip resistance

Food Contact

### Value

7 days 2- 4 mm

> Nil – Karsten test (impermeable)

SHORE D 80

40 MPa

 $B_{fL}$ - $S_1$ 

>1.5 MPa

Up to 70°C at 4 mm

<38 ppm

50 mg / 1000 cycles (Taber Abrader)

 $< 0.4 \text{ W/m} \cdot \text{K}$ 

R9 - R13

No contamination

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## **Denpox**Topcoat

A two pack, solvent free epoxy resin based flooring material.

Denpox™ Topcoat is ideal to provide a light to medium duty, easy to clean, chemical resistant floor coating. A non slip finish can be produced by incorporation of aggregates between coats. Typical uses are process, manufacturing, packaging and warehousing areas subjected to heavy foot and pallet truck traffic.

### **Benefits**

- Non slip finish if required.
- High build, up to 0.25mm each coat
- Seamless & hygienic finish
- Good chemical resistance
- Easy to clean & sterilise
- Low maintenance cost
- Attractive appearance
- High abrasion resistance
- Solvent free; low odour
- Fast installation

### Scope of use

- Manufacturing areas
- Warehouses
- Packaging rooms





Denpox<sup>™</sup> Topcoat provides a smooth finish with a glossy surface.

### Life Expectancy

3 - 5 years.

### Application

To provide a light to medium duty, easy to clean, chemical resistant flooring. Typical uses are dry areas as packaging and warehousing areas subjected to heavy foot and pallet truck traffic.

### Application conditions

Temperature 10°C to 30°C, best 15 to 25°C, max. moisture content in the concrete subfloor 5% by weiaht.

### Temperature Resistance

Denpox<sup>™</sup> Topcoat is resistant to temperature cycles up to 70°C. Extended periods at these temperatures and above will make material susceptible to chemical attack and abrasion wear.

### Colours

Colours Available in a range of standard colours, see "Colour" range.









### **Properties**

Fully cured at 20°C Applied thickness **Water Permeability** 

### Hardness

Compressive strength Reaction to fire Bond strength Temperature resistance

Thermal expansion coefficient Abrasion resistance

Thermal conductivity

Slip resistance

Food Contact

### **Value**

7 days 0,5 mm

Nil – Karsten test (impermeable)

SHORE D 80 40 MPa

 $B_{fL}$ - $S_1$ >1.5 MPa

Up to 70°C at 4 mm

<38 ppm

50 mg / 1000 cycles (Taber Abrader)

 $< 0.4 \text{ W/m} \cdot \text{K}$ 

n.a.

No contamination

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## Denpox<sup>™</sup> Aqua (1-4 mm)

A two pack, solvent free waterbased epoxy flooring material. Denpox™ Aqua 1-4 mm is diffusion open and therefore it can be applied on new-poured concrete floors disregarding the content of moisture in the concrete. Denpox™ Aqua can also be used in areas, where you want to secure pressure equalization from steam outlet, for instance in basements or on magnesite bounded floors.

### **Benefits**

- Waterbased High impact resistance
- Seamless and hygienic finish
- Very good chemical resistance
- Easy to clean and sterilise
- Low maintenance cost
- Attractive appearance
- High abrasion resistance
- Solvent free; low odour

### Scope of use

- In basements
- On magnesite bounded floors





Denpox<sup>™</sup> Agua is a smooth floor with a mat finish.

### Life Expectancy

3 - 5 years.

### Application

Aqua floorings offers excellent wearability, impact and chemical resistance. Denpox™ Aqua is easy to clean and maintain in a hygienic condition. Typical areas of use are basements and wet subfloorings where pressure equalisation from the influence of vapour, for example in cellars and magnesitebonded floors, must be ensured.

### Application conditions

Temperature 5°C to 30°C, best 15 to 20°C, max. moisture content in the concrete subfloor 5% by weight.

### Temperature Resistance

Denpox<sup>™</sup> Aqua is resistant to temperature cycles up to 70°C. Extended periods at these temperatures and above will make material susceptible to chemical attack and abrasion wear.

### Colours

Colours Available in a range of standard colours, see the "Colour Quartz" and "Colour" range.









### **Properties**

Fully cured at 20°C Applied thickness **Water Permeability** Hardness

Compressive strength Reaction to fire

Bond strength Temperature resistance

Thermal expansion coefficient

Abrasion resistance

Thermal conductivity Slip resistance

Food Contact

### **Value**

7 days 0,5 - 1 mm Diffusion open SHORE D 80 55 MPa  $B_{fi}$ - $S_1$ >1.5 MPa

Up to 70°C at 4 mm

<38 ppm

50 mg / 1000 cycles (Taber Abrader)

 $< 0.6 \text{ W/m} \cdot \text{K}$ 

R9 - R13

No contamination

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## **Denpox**Dustbinder

A two pack, solvent free waterbased epoxy resin.

Denpox<sup>™</sup> Dustbinder is ideal as a sealer on concrete floorings and provides a dirt and water resistant and easy to clean surface.

### **Benefits**

- Good chemical resistance
- Easy to clean
- Low installation cost
- Solvent free; low odour
- Fast installation

### Scope of use

- Manufacturing areas
- Warehouses
- Packaging rooms



Denpox<sup>™</sup> Dustbinder provides a smooth finish with a glossy surface.

### Life Expectancy

1 - 3 years.

### **Application**

To provide a dustbinding sealer on concrete floorings. Denpox™ Dustbinder is diffusions open and is therefore suitable for sealing of newly laid concrete.

### Application conditions

Temperature 10°C to 30°C, best 15 to 25°C, max. moisture content in the concrete subfloor 5% by weiaht.

### Temperature Resistance

Denpox<sup>™</sup> Dustbinder is resistant to temperature cycles up to 70°C. Extended periods at these temperatures and above will make material susceptible to chemical attack and abrasion wear.

### Colours

Transparent.









### **Properties**

Fully cured at 20°C Applied thickness **Water Permeability** 

Hardness

Compressive strength Reaction to fire

Bond strength

Temperature resistance

Thermal expansion coefficient

Abrasion resistance

Thermal conductivity

Slip resistance

Food Contact

### Value

7 days 0.2 mm Diffusion open SHORE D 80 55 MPa Bfl-s1 >1.5 MPa

Up to 70°C at 4 mm

<38 ppm

50 mg / 1000 cycles (Taber Abrader)

 $< 0.3 \text{ W/m} \cdot \text{K}$ 

No contamination

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