



DISBON

Competence in construction chemicals since 1957

Are you looking
for a
professional
solution to
construction
surface
protection?
DISBON

welcomes you!





Contents

DAW Group	02
Disbon	03
Disbon - Protection and Repair of Concrete Floors	04
Review of Flooring	05
Surface Preparation	06
Products	07
System Description	08
Colours	09
Disbon International Standards	09



DAW Group

Manufactured and distributed worldwide Disbon is the brand of DAW (Deutsche Amphibolin Werke) that caters to the construction chemical products.

Disbon is a brand for professional construction chemical solutions since 1957. High-quality products and a comprehensive consultancy service guarantee that building structures are protected in the long-term.

The Disbon business unit markets its products in the fields of floor coatings, car park buildings, engineering structures and sealing. The building protection business at DAW goes back to the foundation of DISBON in 1957 and has been operated uninterrupted since then.



DAW

**DEUTSCHE
AMPHIBOLIN-WERKE
VON ROBERT MURJAHN**



Disbon

DAW group entered Middle East in 1998.

Since then, the company has successfully introduced the best German technology and service to the growing market in the Middle East, and has been part of some of the most prestigious projects in the region such as Reem Developments Mira 1, 3, 4 and 5, Palm Jumeirah, The Ritz Carlton DIFC, Sofitel Hotel JBR, Shorooq Mirdif Villas and Building Apartments, Jumeirah Village Triangle Villas, Khalidiya Mall in Abu Dhabi and many more.

Our business took a significant step forward in 2007, when one of the DAW's leading brands, Caparol, joined hands with Emaar Industries & Investments. With Emaar becoming a shareholder in one of DAW's leading brand Caparol, a merger between Germany's paint technology and regional construction market was created and launched.

With the increase in demand and the growth in the regional construction market, DAW foresaw the need for a new facility, resulting in the inauguration of our new state-of-the-art factory in Dubai Industrial City in 2012 where many Disbon products are manufactured.

The new factory offers more than double production capacity enabling us to serve the entire GCC region more efficiently.

The 20,000 sqm facility incorporates a manufacturing plant alongside corporate offices that are designed to showcase the quality and diversity of DAW's colourful world-an environment that truly reflects the essence of our brand.

You can always be confident and assured of excellent results, whatever the project or design challenge is. Working in partnership with you, our team of highly trained professionals can even advise you on the most appropriate products that suit your requirements. Hence, you can maximise both the aesthetics and functionality of your project on a different scale.



Disbon - Protection and Repair of Concrete Floors

Why paint a floor?

- Raw concrete floors are exposed to and absorb all kinds of chemicals; moisture, water, oils, grease, and other industrial contaminants.
- Over time these contaminants will dirty, chemically affect and weaken the floor.
- Any reinforcing materials must also be protected from moisture and chlorides, as these will attack the reinforcing materials and corrode and weaken the reinforcing structure.
- The constant working on a floor area; such as tyre marks and vehicular traffic flow, cleaning, UV exposure and rain will also affect the performance and lifespan of the substrate.
- Smooth concrete floors offer very little traction, especially when wet, and rough concrete quickly begins to look dirty.
- Aged concrete also looks unpleasing to the eye and gives the area a feeling of neglect.

Painting the floor protects the substrate, reducing the cost of maintaining it in a sound condition, while improving the visual or aesthetic look of the floor and the area surrounding it.

To maximize the benefits of a floor coating system, it is important that the system selected meets the exact requirements of the floor itself.

We invite you to consult with our experts who can help recommend a system that meets both your short and long term requirements.



Review of Flooring

Physical durability:

How heavy a traffic load can the floor be exposed to? The physical wear and tear on the floor play a crucial factor in the system finally selected. The thickness of the final flooring system is fundamental to the protection it will finally offer. There is no question that a heavy traffic floor will benefit from a thicker flooring system being applied.

Chemical protection:

In a chemical production environment, protection is required against the chemicals typically used in the factory processes. In this kind of environment, cleaning is the most important factor and the surface profile becomes critical to ensure any such cleaning is thorough and complete.

Maintenance or new work:

The question of when the floor will be used plays an important role in the decision making process. In a new project, paint and solvent smells have plenty of time to dissipate, but in a refinish environment it is important to use solvent free products so the area can be used again as soon as possible.

Applicator skills and installation:

At Disbon we guarantee “quality in a can” but “quality on the floor” can also be guaranteed if you select an applicator who has trained staff and is experienced “on the job”. So choosing an applicator is almost as important as choosing the flooring system itself.

Maintenance cycles:

Before selecting a final system you must have a good idea of what maintenance cycles your kind of business can afford. Higher durability floors will be more costly, but the longer maintenance cycles will result in the floor being used more often for the intended job of production, with less time spent on maintenance. Ultimately a more durable grade of system will save you money.

Cost effectiveness:

Before selecting a final system, try to balance all your requirements. One might not need to apply a high durability system in all areas, just in the traffic corridors or areas around special equipment that requires a higher chemical resistance.

There may be areas where maintenance can occur that does not disrupt the production environment and a shorter maintenance cycle can be planned in. And there may also be areas where attention to a higher aesthetic image will make an important contribution to the project. Share these questions with our Technical Department and we can ensure a full system that meets your exact needs.

We strongly advise that you speak to our Technical Department before finalizing the system you require, as specifications can be written for large floor areas that optimize down time, cost and durability of the various areas within the overall project.



Surface Preparation

Methods for surface preparation

	Method	Benefits	Limitation
Dust Free Captive Blasting	Surfaces are impacted and abraded by various sized abrasives. Dust, dirt, laitance and contamination is collected and stored by a separate vacuum unit. Different size units are available.	<ul style="list-style-type: none"> • Excellent profile produced • Dust Free • No water used • Fast • For large and small areas 	<ul style="list-style-type: none"> • Not as effective on uneven floors
Diamond Disc Grinding	Surfaces are ground and levelled by extremely hard discs. Dust, dirt, laitance and contamination is collected and stored by separate vacuum unit.	<ul style="list-style-type: none"> • Levels uneven floors • Low dust levels • No water used 	<ul style="list-style-type: none"> • Slower than other methods • Care should be taken to produce a profiled surface
Sand/Grit Blasting	Surfaces are blasted by sand or grit intermixed with compressed air and channeled through a nozzle.	<ul style="list-style-type: none"> • A range of profiles can be produced • Large and small areas can be prepared 	<ul style="list-style-type: none"> • Dusty • Cannot be used where existing machines/ equipment operates
Scarifying	Metal cutters rotate at high speed to pulverize the concrete and remove laitance, contamination and unsound concrete.	<ul style="list-style-type: none"> • Levels uneven floors • Deep sections of concrete can removed 	<ul style="list-style-type: none"> • Profile achieved only it for high build coatings • Dusty

* Other surface preparation methods may be considered on case by case basis.

A combination of procedures may be required including those already mentioned and the following:

- Detergent scrubbing
- Steam cleaning
- Flame cleaning
- Hot compressed air unit

For further information, contact our technical department at: +971 4 368 7600

Products

Disbon Solvent Based Epoxy Floor Coating

DisboPOX 110SB

Description and Feature

DisboPOX 110SB is a two pack polyamide cured solvent based epoxy self primer for epoxy floor coating system with excellent penetration and adhesion properties.

Can be used as top coat for internal epoxy systems. It is durable, resistant to chemicals, weather proof and moisture resistant.



Disbon Solvent Free Epoxy Floor Coating

DisboPOX 210SF Primer • DisboPOX 230SF Topcoat

Description and Feature

DisboPOX 210 SF is a two component polyamine cured solvent free transparent epoxy primer with excellent penetration properties to ensure good adhesion on concrete floors for high chemical and mechanical load resistance.

Can also be used as scratch filler for minor cracks and surface undulations.

DisboPOX 230SF is a two component amine cured solvent free epoxy top coat, can be used as self primer and top coat for internal floor coating system. It is a self smoothing, easy to apply product, with excellent chemical, and impact resistance.



Disbon Polyurethane Floor Coating

Disbon Solvent Based Systems or Disbon Solvent Free Systems with DisboPUR 630 Polyurethane TopCoat

Description and Feature

DisboPUR 630PU is two pack solvent based PU Top coat for Polyurethane floor coating system with excellent chemical abrasion and UV Resistance properties.



DisboXID 921 • DisboXID 922

Description and Feature

DisboXID 921 is pigmented, highly elastic, 2-component polyurethane intermediate coat. Permanently moisture resistant, crack bridging intermediate layer and wearing course within PU deck coating systems (car park systems)

DisboXID 922 is pigmented, viscoelastic, 2-component polyurethane Intermediate layer for deck coating system. Permanently moisture resistant, crack bridging intermediate layer and wearing course within PU deck coating systems (car park systems)



System Description

Application of the system

Product Family

Area Of Use

Epoxy Systems

Solvent Based or solvented coating	DisboFloor 140	Production assembly areas, workshops, dairies, soft drinks production and bottling plants, kitchens, showrooms.
Solvent Free Epoxy Coating	DisboFloor 150	Car production and storage facilities, aircraft hangars and maintenance areas, car workshops traffic decking.
Epoxy Self Leveling (Smoothing)	DisboFloor 250	Clean rooms, laboratories, kitchens, plant rooms, light industrial plants, food production and processing, beverage production - including soft drink manufacturing, pharmaceutical areas, laboratories, clean rooms, engineering workshops and assembly lines, showrooms, demonstration area, retail, schools, hospitals and hotels.
Epoxy Screed	DisboFloor 250	Food production, meat processing, vegetable and fruit canning, dairy products, bakeries and confectioners, chemical production and processing, textile production - bleaching and dying, metal processing and engineering, heavy engineering plants and steelworks, electricity substations and battery rooms, chemical handling and process areas, oil refineries and plating factories.

Polyurethane Systems

Deck Coating systems	DisboDeck 250	Car parks and driveways.
	DisboDeck 150	Car park decks, car park ramps, aircraft hangars, transport depots; e.g. bus, coach, taxis etc., service centres, garages, workshops, sports stadium and grandstand waterproofing coatings, balconies, protection of concrete from the damaging effects of salt water, chemicals, fuel and oil spillage.
	DisboDeck 100	Car park decks (exposed and intermediate), Ramps, Heavy duty turning areas, entrance/exit areas.
	DisboDeck 200	Car parks, Industrial manufacturing units, warehouses.
	DisboDeck 155	Internal car parks, service centres, garages.

* Systems used on varying thickness as required.

Colours

Colour selection considerations

The Disbon systems comes in a standard colour range as described on this page. Should you have a specific colour you require, it can be manufactured with the following considerations in mind.



RAL 7032 - Light Grey



RAL 7042 - Dark Grey



RAL 1003 - Yellow



RAL 6028 - Green



RAL 3011 - Red



RAL 5017 - Blue

Whilst every care is taken to match the colours shown, variations may occur due to limitations of the printing process, texture and gloss levels on the substrate and the effect of light and shade on location. For best results apply a small sample on location and always ensure batch numbers are the same on all cans used.

Disbon International Standards

- The products in this catalogue are formulated and tested with the full support of the Deutsche Amphibolin Werke to conform to local requirements and to the standards that are applied to the Disbon brand on an international scale; guaranteeing our quality.
- Should your needs be more advanced and you require a solution that complies with full German standards, please consult our Technical Department. We have wide range of products designed to meet the most stringent European environmental and operational needs. Such products can readily be supplied to local markets to meet individual demands.
- Standard colours are indicated and special colours can be matched, but subject to matching approval, production batch sizes, manufacturing time requirements and raw material availability.
- Please contact your local representative for full details.



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