



# JOTUN

## JOTAFLOOR

TRAFFIC DECK SYSTEM



**Superior Floor Coatings**

## JOTUN WORLDWIDE



Jotun is a global leader in paints and coatings. We have 74 companies and 40 production facilities on all continents. In addition, Jotun has agents, branch offices and distributors in more than 80 countries.

Renowned for quality, Jotun is a leading manufacturer and supplier of high performance coatings. The protection and decoration of concrete projects is an area of particular expertise for Jotun. By combining investment, proven technology and innovative solutions, Jotun has earned a wealth of practical knowledge in the successful protection of structures located throughout the world.

Extensive research and development has positioned Jotun as a leader in providing economic, innovative, high performance solutions to the provision of beauty and protection. The examples illustrated and described in this brochure demonstrate the success of the technology and formulations.

## JOTAFLOOR TRAFFIC DECK SYSTEM

As one of the dynamic Jotafloor range of products, the Traffic Deck System is a high performance, versatile coating system designed to specifically protect concrete floors/traffic decks normally found in car parks that are subject to heavy vehicular traffic.

A combination of systems can be produced using the various products within the range to ensure that final protection and finish offered are tailor-made for the end use of the floor. Ramps, turning circles and parking bays require the extra protection this flexible system offers. What's more, the final PU Topcoat can be produced in a wide range of attractive colours to match the surrounding décor.

This full system represents the latest in reinforced glass flake epoxy and polyurethane technology, and completely outdates the use of aggregate/sand as a reinforcement to the coating.

### Benefits:

- Optimum economical protection
- Glass flake gives ultimate protection of high wear areas
- Outstanding long-term resistance to abrasion
- Low maintenance cost and easy to maintain
- Chemical and UV resistance
- Flexibility
- Wide range of attractive colours



## RECOMMENDED USE

The Jotafloor Traffic Deck System offers the ultimate protection to concrete floors subject to the long-term stresses produced by the constant wear of vehicular traffic onto a coating system.

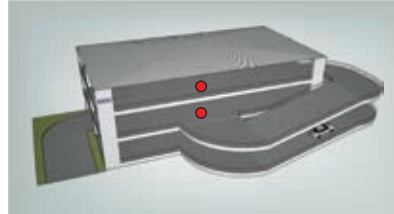
Typical areas of use include:

### Ramps & turning circles



Recommended systems:  
1, 2, 3, 4 & 5 (see below)

### Driveways



Recommended systems:  
1, 2, 3 & 5 (see below)

### Parking bays



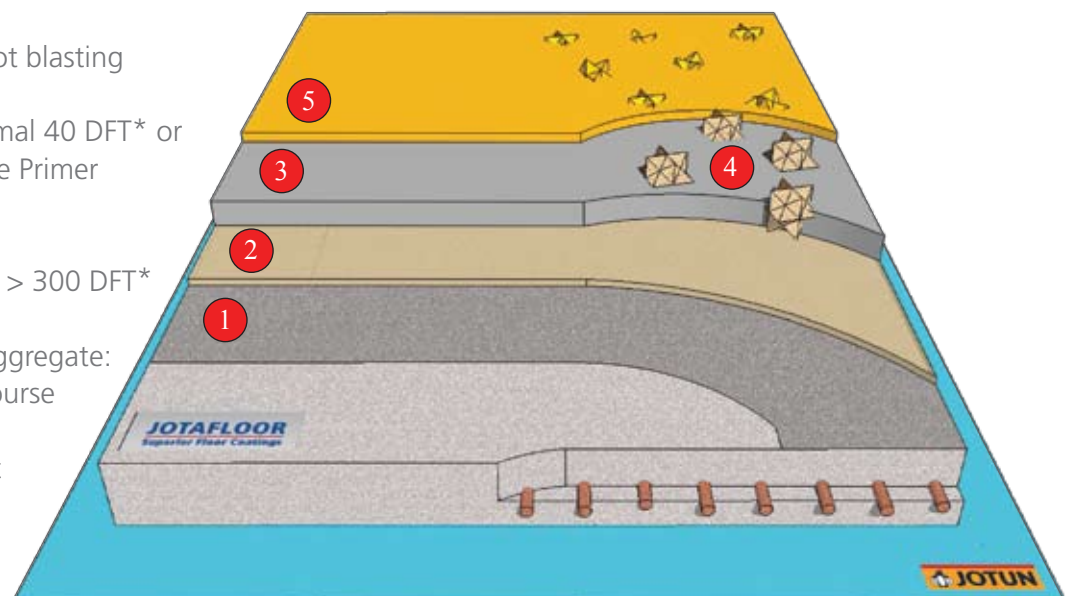
Recommended systems:  
1, 2 & 5 (see below)

## RECOMMENDED SYSTEMS

As the Jotafloor Traffic Deck System is customised to suit the requirements of specific floors, different systems may be required. Depending on the location of the floor, the protective coating layer can be applied at varying thickness to ensure that the ultimate protection is produced. Aggregate sizes can be adjusted for extra traction or to offer a more pleasing final finish. The final coat is available in a wide range of colours to help blend the floor in with the corporate design and surrounding décor.

## PREMIUM SYSTEM

1. Surface preparation:  
Grinding or Steel shot blasting
2. Primer:  
Jotafloor Sealer Normal 40 DFT\* or  
Jotafloor Solvent-free Primer  
100-150 DFT\*
3. Intermediate coat:  
Jotafloor Glass Flake > 300 DFT\*
4. Non-slip:  
Jotafloor Non-slip Aggregate:  
fine, medium and course
5. Topcoat:  
Jotafloor PU Topcoat  
2/3 x 70 DFT\*



\* DFT stands for Dry Film Thickness

## SURFACE PREPARATION

### The critical factor for performance and durability of floor coatings

Poor surface preparation is the major cause of floor coatings failures. Using correct surface preparation methods and equipment is essential to secure the cleanliness and surface profile necessary for the good adhesion and performance of floor coating systems.



The machine is ducted to a vacuum unit separating dust and reusable steel shot.

Concrete should be minimum 28 days old to allow for curing. Prior to the application of any coating the maximum moisture content allowed is 4%. Concrete substrates must be cured, sound, clean, dry and free from laitance, loose particles and contaminants such as oil, grease, curing compounds, shuttering oils, chemicals, etc. This is achieved by using the adequate combination of mechanical means such as abrasive blast cleaning, grinding, high-pressure water jetting (150 bars / 2200 psi) and detergent cleaning.

Unsound concrete, surface defects, blowholes, honeycombs, aggregate pop-offs, and the like should be repaired using an approved repair medium. (Jotun Epoxy Filler)

### Steel shot blasting for concrete preparation

Steel shot is centrifugally propelled at high velocity onto the substrate. It is the most effective and rapid method for the surface preparation of concrete floors, removing laitance, curing compounds and producing surface roughness for good mechanical adhesion of the coating system.

A dust-free captive blasting unit is the equipment of choice for the surface preparation of a concrete floor.

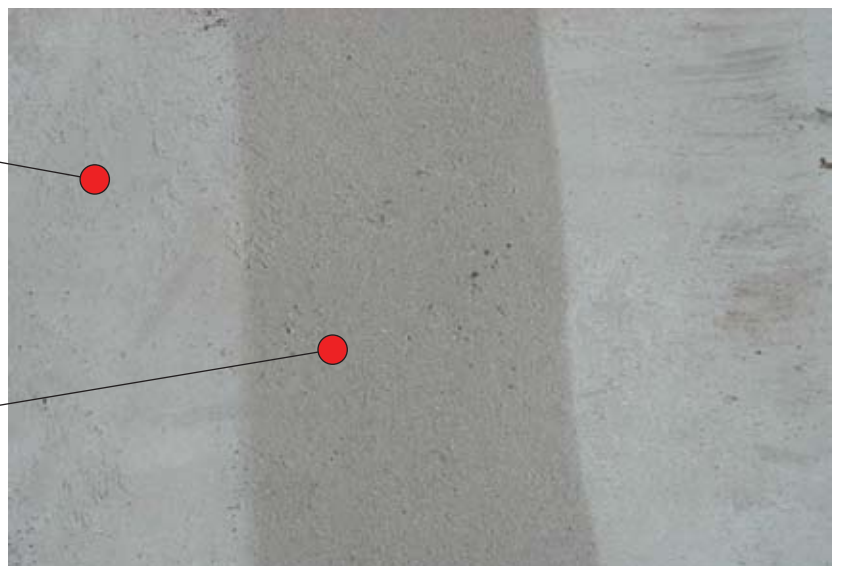
### Mechanical grinding

Disc grinding is a slower process than steel shot blasting but is an effective alternative method to prepare floors. It is useful to smooth out slight surface imperfections or flatten undulating areas and help achieve a good finish for the coating system. Diamond disc grinders are the preferred equipment.

## EVALUATION OF LAITANCE REMOVAL

Laitance

After removing laitance, this is a suitable floor ready to accept a primer. Pour water onto the concrete. If it penetrates then it is likely to be ready for the primer. If the water 'beads' that means surface preparation is not sufficient.



# GUIDELINES FOR SURFACE PREPARATION

Recommended surface preparation should follow the guideline from the International Concrete Repair Institute (ICRI). The Society for Protective Coating (SSPC) currently follows the guideline from ICRI.

This guide provides designers, specifiers, contractors and manufactures with the tools to select the method for preparing the concrete surface before application of sealers, coatings and screed. The purpose of this guideline is to ensure the preparation of a clean and suitably roughened surface so that the adhesion between the substrate and the paint system is secure.

COATING TO BE APPLIED	FILM DFT	CONCRETE SURFACE PROFILE						
		CSP1	CSP2	CSP3	CSP4	CSP5	CSP6	
Sealers	0-70 µm	█						
Thin Film	100-250 µm	█						
High Build	250-1000 µm		█					
Self Leveling	1250-3000 µm			█				
Screed	3000-6000 µm					█		
PREPARATION METHOD		CSP1	CSP2	CSP3	CSP4	CSP5	CSP6	
Detergent Scrubbing		█						
Low Pressure Water Jet (5.000 psi)			█					
Grinding			█					
Abrasive Sand Blasting			█					
Steel Shot Blasting			█					
High Pressure Water Jetting (10.000 psi)							█	

## APPROVALS

All tests are performed by an independent laboratory. Test certificates are available at your local Jotun Technical Department.



TEST	STANDARD	RESULTS/COMMENTS
Adhesive Peel Strength	ASTM D1000	35 N; good
Tear Resistance	ASTM D624	28.6 N/mm; maximum value reported
Crack Bridging Ability	ASTM C836	Passed (2mm crack/10 cycles); no delamination or rupture of coating
Rapid Chloride Permeability	AASHTO T277	488 Coulombs; host concrete 2488 Coulombs
Water Permeability	DIN 1048	Nil (0 mm) penetration; host concrete had penetration of 21 mm
Acid/Alkali Reaction	ASTM D543	Non-reactive; no visible signs of discolouration or blistering
Weathering/Salt Spray	ASTM B117	Passed; no visible signs of discolouration or blistering
UV Exposure	ASTM G53	No discolouration
Chemical Resistance: Petrol, Diesel, Fuel, Motor Oil, Anti-freeze Kerosene, 20% Salt Solution, Detergent	ASTM D1308	Non-reactive; excellent. No signs of discolouration or blistering
Shore A Hardness	ASTM D2240	87 (max.); Jotafloor Glass Flake only
Impact Resistance	ISO 6262	Passed; no surface cracks, defects or indentations
Taber Abrasion	ASTM 4060	<0.001; surface remained 100% intact
Toxicity	BS 6920	Satisfactory; non-toxic
Flame Spread	ASTM D1360	Passed; no ignition of coating
Pull off strength (Bond Strength) to concrete substrate	BS 1881: Part 207	2.7 N/mm <sup>2</sup>
Pull off strength after UV exposure	BS 1881: Part 207	2.6 N/mm <sup>2</sup> ; failure of concrete substrate
Pull off strength after weathering/salt spray	BS 1881: Part 207	2.7 N/mm <sup>2</sup> ; 100% bond retention
Elongation	ASTM D2370	30% elongation (average figure) Test performed on Jotafloor PU Topcoat
Barcol Hardness	ASTM D2583	95% hardness retention following chemical exposure
* Resistance to negative water pressure	Non-standard	Passed; sample was totally exposed to industry standard of 5 bar negative water pressure for 7 days. No failure occurred to system, test pressure was increased to 15 bar (max. equipment pressure), once again no failure occurred.

## TRAFFIC DECK SYSTEM REFERENCES

Jotun's Jotafloor Range is used for many prestigious projects like Burj Al Arab in Dubai and many others across the world.



### Al Ghanim Garage - The World's largest car repair garage



**Location:** Kuwait

**Car Park**

**Project Size:** 31,000 sq m

**Coating System:**

1 x Jotafloor Sealer @ 40  $\mu$ m

1 x Jotafloor Glass Flake @ 300  $\mu$ m

2 x Jotafloor PU Topcoat @ 70  $\mu$ m



### Tawaren Commercial Center



**Location:** Riyadh, KSA

**Car Park**

**Project Size:** 7,000 sq m

**Coating System:**

1 x Jotafloor Solvent Free Primer @ 150  $\mu$ m

1 x Jotafloor Glass Flake @ 600  $\mu$ m

1 x Jotafloor Non-slip Aggregate

3 x PU Topcoat @ 80  $\mu$ m

**Line Marking:** Hardtop AS Yellow colour



### Guangzhou International Finance Center



**Location:** Guangzhou, China

**Car Park**

**Project Size:** 25,000 sq m

**Coating System:**

2 x Jotafloor Sealer @ 50  $\mu$ m

2 x Jotafloor Glass Flake @ 500  $\mu$ m

2 x Jotafloor Topcoat @ 50  $\mu$ m



## Discovery Gardens (Residential Community)



**Location:** Dubai, UAE

**Car Park**

**Project Size:** Approx. 55,000 sq m

**Coating System:**

1 x Jotafloor Solvent Free Primer @100 µm

1 x Jotafloor Glass Flake @ 300 µm

1 x Jotafloor Non-slip Aggregate (medium)

2 x Jotafloor PU Topcoat @ 70 µm

**On ramps:** 1 additional coat of Jotafloor PU Topcoat @ 70 µm



## San Stefano Mall



**Location:** Alexandria, Egypt

**Car Park**

**Project Size:** 12,000 sq m

**Coating System:**

1 x Jotamastic 80 @150 µm (to give adhesion after surface preparation to concrete & old paint)

1 x Jotafloor Topcoat @ 50 µm

Jotafloor Non-slip Aggregate @ 1 kg/m<sup>2</sup>

2 x Jotafloor Topcoat @ 50 µm



## National Convention Center\*



**Location:** Doha, Qatar

**Car Park**

**Project Size:** 140,000 sq m

**Coating System:**

1 x Jotafloor Sealer @ 40 µm

1 x Jotafloor Glass Flake @ 300 µm

1 x Jotafloor Non-slip Aggregate

2 x Jotafloor PU Topcoat @ 70 µm

**Bus and taxi ramps**

**Coating System:**

Jotafloor Sealer @ 40 µm

Jota Armour @ 2000 µm

\* Project under construction

## CASE STUDY - PROTECTED WITH JOTUN SYSTEMS

**Jotafloor Traffic Deck System** protects the concrete floor of the workshop that is subjected to heavy vehicular traffic, ensuring longevity and full protection.

**Client:** National Motor Company (Honda Workshop)

**Location:** Manama, Kingdom of Bahrain

**Workshop**

**Project Size:** 10,000 sq m

**Coating system applied:**

1 x Jotafloor Sealer @ 40 µm

1 x Jotafloor Glass Flake @ 500 µm

1 x Jotafloor Non-slip Aggregate (fine)

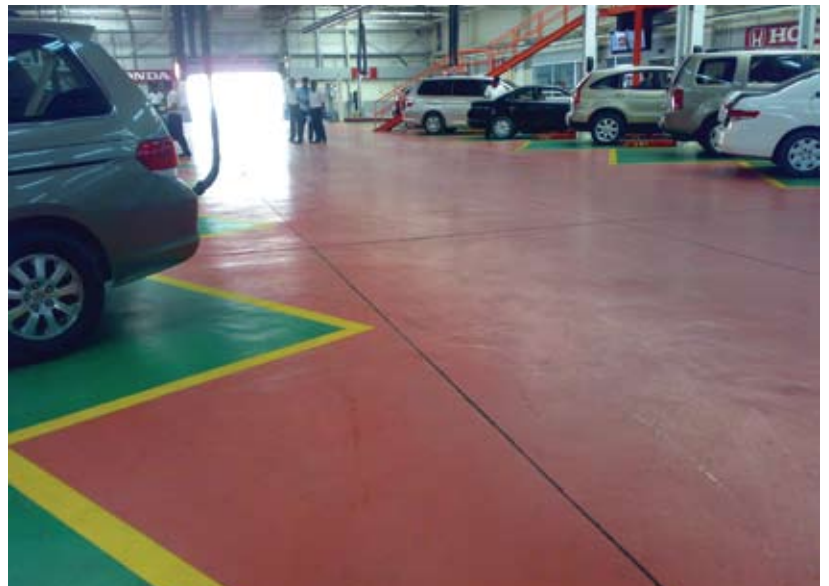
2 x Jotafloor PU Topcoat @ 80 µm



2002

These pictures illustrate the Traffic Deck System applied in 2002 and 8 years later.

The system performance shows excellent results even after heavy vehicular traffic during this period of time.



2010

**QUOTE BY A HONDA REPRESENTATIVE**

“We are extremely happy with the quality of Jotun floor coatings. We do recommend the system to other facilities as well. On an average 150 cars pass through our workshop every day.”

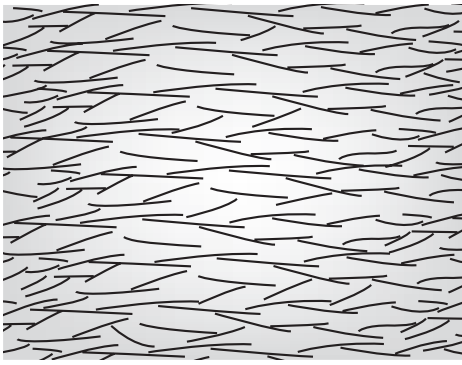


## THE JOTAFLOOR RANGE

Jotun has been successfully protecting concrete floors around the world for many years. Jotafloor is Jotun's highly acclaimed range of industrial floor coatings specially created to suit most concrete floors in different environments.

Concrete floors require protection from chemicals, contamination from spillage, impact, abrasion and a host of other potentially damaging criteria. The Jotafloor range consists of products and systems that protect and extend the life of the floors, whilst having the added benefit of an excellent colour range to offer more aesthetically pleasing effects. Each system in the range has undergone a comprehensive regime of testing at an internationally recognised independent laboratory to ensure the required amount of protection is provided.





“The glass flakes link together within the epoxy resin to form a high density insoluble matrix which is virtually impermeable to moisture and highly resistant to impact and abrasion”

Glass Flakes

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**Jotafloor Glass Flake** constitutes the protective layer of the Jotafloor Traffic Deck System produced specifically for car parks and traffic decks. This 2-component, high solids epoxy, reinforced with glass flakes, offers the ultimate in protection to concrete floors found in situations of heavy vehicular use. The finished coating represents the latest in reinforced glass flake technology and completely outdates the use of aggregate as a wearing coat in car park protective coating systems.

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**Jotafloor Sealer** is a transparent 2-pack epoxy sealer/primer exhibiting excellent penetration properties ensuring good adhesion between Jotafloor systems and host masonry surfaces.

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**Jotafloor Topcoat** is a 2-pack epoxy resin floor coating offering good chemical resistance durability and is available in a variety of attractive colours. It may also be used as a final coating on Jotafloor Screed.

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**Jotafloor PU Topcoat** constitutes the finishing layer of the Jotafloor Traffic Deck System produced specifically for car parks and traffic decks. This 2-component, high solids, flexible aliphatic polyurethane coating provides an excellent, colour fast, weather resistant and durable finish to the system. It offers resistance to a wide range of contaminants normally found in a car park type situation and provides the perfect flexible finish to withstand the stresses that rubber tyres impart onto a coating system.

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**Jotafloor SF Primer** is a 2-component, solvent-free, high strength epoxy resin-based primer/sealer, promoting excellent adhesion between concrete substrates and suitable Jotafloor systems.

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**Jotafloor Coating** is a solvent-free, 2-pack epoxy resin floor coating offering excellent chemical and abrasion resistance. The finished surface is high gloss, seamless, hygienic and available in a range of attractive colours.

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**Jotafloor SL Universal** is a high performance, self smoothing, solvent-free, seamless epoxy floor coating capable of being applied at varying thickness to suit the final use of the floor. Jotafloor SL Universal offers excellent chemical abrasion and impact resistance and is available in a range of attractive colours.

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**Jotafloor PU Universal** is a high performance, self smoothing, solvent-free, 2-component, seamless polyurethane floor coating capable of being applied at varying thicknesses to suit the final use of the floor. Jotafloor PU Universal offers a slip resistant, flexible floor providing abrasion and impact resistance and an ability to withstand a wide range of chemicals. It can also be used as a waterproof membrane for multi-story car parks.

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**Jotafloor Rapid Dry WB** is a single component, fast drying, semi gloss nano acrylic-based topcoat offering durability with good UV protection and aesthetics. It also has antibacterial properties.

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**Jotafloor Sealer WB** is a single component, fast drying, and clear sealer with nano sized acrylic particles. The nano sized acrylic particles help in better penetration and sealing of the substrate.

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**Jotafloor Rapid Dry** is a single component, fast drying, glossy alkyd offering durability not normally associated with alkyd floor products.

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**Jotafloor Damp Bond** is a specially formulated 2-component, high solids epoxy resin-based primer used to promote adhesion between Jotafloor products and the parent concrete substrate, used on green concrete (high moisture content).

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**Jotafloor Screed** is a high performance, trowel applied, 3 pack, and solvent-free epoxy resin floor topping, offering exceptional strength characteristics, resistance to a range of chemicals and superior abrasion/wear properties.

**Jotafloor Screed Primer** is a 2-pack solvent-free epoxy resin primer exhibiting excellent penetration properties in cementitious substrates and promotes good adhesion for Jotafloor Screed.

**Jotun Epoxy Filler** is a high strength, non-shrink, 2-component, solvent-free epoxy filler. Once cured, the abrasion resistance and compressive strength are higher than concrete.

**Jotafloor Non-slip Aggregate** is a pre-bagged graded, hard wearing silica quartz aggregate designed to be applied in combination with Jotafloor products to give a non-slip floor finish or to provide traction as part of a dedicated car park/traffic deck system.

### TYPICAL SYSTEM RECOMMENDATION

	LIGHT SERVICE CONDITIONS		MEDIUM SERVICE CONDITIONS		HEAVY SERVICE CONDITIONS	
	Pedestrian Foot Traffic Warehouse Light Traffic		Heavy Pedestrian Foot Traffic Warehouse Heavy Traffic		Very Heavy Pedestrian Foot Traffic Factory / Industry	
	COATING SYSTEM	DFT $\mu\text{m}$	COATING SYSTEM	DFT $\mu\text{m}$	COATING SYSTEM	DFT $\mu\text{m}$
Standard System	Jotafloor Sealer Jotafloor Rapid Dry	1 x 40 2 x 40	Jotafloor Sealer Jotafloor PU Topcoat	1 x 40 2 x 50	Jotafloor Sealer Jotafloor SL Universal	1 x 40 1 x 1500
Premium System	Jotafloor Sealer Jotafloor Topcoat	1 x 40 2 x 50	Jotafloor Sealer or Jotafloor SF Primer Jotafloor Coating	1 x 40 1 x 100 1 x 300	Jotafloor Sealer Jotafloor SL Universal / PU Universal	1 x 40 1 x 4000
	<b>System with Non-slip surface</b>		<b>System with Non-slip surface</b>			
Non-slip Aggregate	The coating system can be made non-skid by using Jotafloor Non-slip Aggregate cast on the first coat of Jotafloor Topcoat	Fine/ Medium or Coarse aggregate	Use Jotafloor solvent-free primer instead of Jotafloor Sealer, cast the aggregate in wet primer before the final coats	Fine/ Medium or Coarse aggregate	Contact Jotun's Technical Service for Anti-slippery properties	

### CAR PARKS - JOTAFLOOR TRAFFIC DECK SYSTEM

	PARKING BAYS		DRIVEWAYS		RAMPS AND TURNING CIRCLES	
	COATING SYSTEM	DFT $\mu\text{m}$	COATING SYSTEM	DFT $\mu\text{m}$	COATING SYSTEM	DFT $\mu\text{m}$
Premium System	Jotafloor Sealer or Jotafloor SF Primer Jotafloor Topcoat/ PU Topcoat*	1 x 40 1 x 100 2 x 70	Jotafloor Sealer Jotafloor Glassflake Optional Jotafloor Non-slip Aggregate Jotafloor Topcoat/ PU Topcoat	1 x 40 1 x 300 Medium 2 x 70	Jotafloor Sealer Jotafloor Glassflake Jotafloor Non-slip Aggregate Jotafloor PU Topcoat	1 x 40 1 x 400 Medium 3 x 70

\* Alternative Hardtop AS can be used instead of Jotafloor PU Topcoat

Use Jotun Epoxy Filler for unsound concrete, blowholes and other surface defects.

For further information on systems, seek advice from the Jotun Technical Department.

Business Card

**Disclaimer:** The information in this brochure is given to the best of our knowledge, based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice. Jotun is a World Wide company with factories, sales offices and stocks in more than 80 countries. For your nearest local Jotun address, please contact the nearest regional office or visit our website at [www.jotun.com](http://www.jotun.com)

# Jotun worldwide

Jotun Coatings and Jotun Paints  
Divisions of Jotun A/S

Legal Jotun entities world wide are listed.  
For details of Branch offices and Jotun  
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