



ADFIL
Construction Fibres



DURUS® PAVE
DURUS® FLOOR

Macro fibre
Paving Systems
for
External & Internal
Applications



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Reinforced concrete reinvented

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DURUS® PAVE

Paving System for External Applications



Background

Adfil Construction Fibres have developed a proven system of synthetic macro fibre reinforced concrete for use in external areas, replacing the need for traditional steel mesh. **DURUS PAVE** uses **2.5Kg m³** of **Durus® EasyFinish** Polypropylene Macro Fibre ready mixed into a suitable grade of concrete to ensure consistent and reliable performance for the Customer every time.

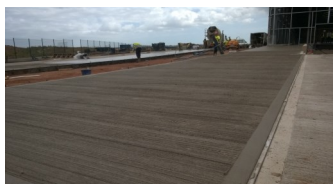
Application Areas

DURUS PAVE can be used in a wide variety of external applications:

- External ground supported slabs for pavements, yards and hard standings
- Farmyards and Agricultural roadways
- Car parks
- Domestic driveways



Direct discharge into formwork will reduce construction time



Large areas can be poured without having to negotiate in-situ steel mesh

The Key Features & Benefits

DURUS PAVE will give the following benefits when compared to traditional steel mesh reinforcement construction:

- Ease of construction and reduced construction time
- The risk of reinforcement being placed incorrectly is eliminated as it is contained within the delivered concrete, at the correct dosage to ensure the required performance
- Elimination of significant Health & Safety hazards associated with the handling, cutting and fixing of steel mesh reinforcement
- A significant reduction in embedded carbon (60%) when compared to steel mesh construction.
- Can provide an overall cost saving compared to traditional construction methods.

Installation

DURUS PAVE can be placed using conventional techniques such as direct discharge, skip or pump. There are no specialist handling requirements. To ensure the optimum performance of the end product, best practice compaction, finishing and curing techniques should be observed. It is strongly recommended that a curing membrane be applied to the concrete surface immediately after finishing to control moisture and ensure the concrete reaches its required strength specification.

*use of information see page SB-ENG-DURUSPave-UK-01/2021 statement

DURUS® PAVE

Paving System for External Applications



Embedded Carbon Savings

DURUS PAVE can be used in a wide variety of external applications. Using **DURUS PAVE** can result in significant carbon savings when compared to traditional steel mesh reinforcement.

The following table shows typical carbon savings using fibres compared to traditional steel mesh

Solution	Traditional Steel Mesh Reinforcement Type			
	A142	A193	A252	A393
DURUS PAVE 130	23%	43%	57%	72%
DURUS PAVE 160	5%	30%	47%	66%
DURUS PAVE 190		17%	36%	57%

Table showing carbon savings compared to traditional mesh types using **2.5Kg m3 of Durus® EasyFinish**

Technical Information

DURUS PAVE can be specified and installed based upon the following load and construction recommendations, complying with the stated design assumptions noted below:

Solution	Minimum Slab Thickness (mm)	Maximum Traffic Loadings	Maximum Joint Spacing (m)
DURUS PAVE 130	130	LGV / Car 3.5T 2 Axles	6
DURUS PAVE 160	160	HGV 40T 5 Axles	6
DURUS PAVE 190	190	HGV / Trailer 44T 6 Axles	6

DESIGN ASSUMPTIONS: Concrete grade C32/40; **2.5Kg m3 of Durus® EasyFinish**; Minimum sub-grade CBR = 5%; LGV/HGV data from UK Department of Transport 2003; For loadings outside these parameters contact **Adfil** for specialist advice

Joint recommendations can be obtained via the full paving guide

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DURUS® FLOOR

Flooring System for Internal Applications



Background

Adfil Construction Fibres have developed a proven system of synthetic macro fibre reinforced concrete for use in internal areas, replacing the need for traditional steel mesh. **DURUS FLOOR** uses **2.5Kg m³** of **Durus® EasyFinish** Polypropylene Macro Fibre ready mixed into a designated grade of concrete to ensure consistent and reliable performance for the customer every time.

Application Areas

DURUS FLOOR can be used in a wide variety of industrial and domestic applications:

- General industrial flooring
- Workshops
- Agricultural buildings
- Domestic floors
- Warehouses



DURUS Floor can be used in a wide variety of Internal Applications



A quality power float finish is easily achieved with the **DURUS Floor** system

The Key Features & Benefits

DURUS FLOOR will give the following benefits when compared to traditional steel mesh reinforcement construction:

- Ease of construction and reduced construction time
- The risk of reinforcement being placed incorrectly is eliminated as it is contained within the delivered concrete, at the correct dosage to ensure the required performance
- Elimination of significant Health & Safety hazards associated with the handling, cutting and fixing of steel mesh reinforcement
- A significant reduction in embedded carbon (60%) when compared to steel mesh construction
- Can provide an overall cost saving compared to traditional construction methods

Installation

DURUS FLOOR can be placed using conventional techniques such as direct discharge, skip or pump. There are no specialist handling requirements. To ensure the optimum performance of the end product, best practice compaction, finishing and curing techniques should be observed. It is strongly recommended that a curing membrane be applied to the concrete surface immediately after finishing to control moisture and ensure the concrete reaches its required strength specification.

*use of information see page SB-ENG-DURUSFloor-UK-01/2021 statement

DURUS® FLOOR

Flooring System for Internal Applications



Embedded Carbon Savings

DURUS Floor can be used in a wide variety of internal applications. Using **DURUS Floor** can result in significant carbon savings when compared to traditional steel mesh reinforcement.

The following table shows typical carbon savings using fibres compared to traditional steel mesh

Solution	Traditional Steel Mesh Reinforcement Type			
	A142	A193	A252	A393
DURUS FLOOR 130	23%	43%	57%	72%
DURUS FLOOR 160	5%	30%	47%	66%
DURUS FLOOR 190		17%	36%	57%

Table showing carbon savings compared to traditional mesh types using **2.5Kg m3 of Durus® EasyFinish**

Technical Information

DURUS FLOOR can be specified and installed based upon the following load and construction recommendations, complying with the stated design assumptions noted below:

Solution	Minimum Slab Thickness (mm)	Maximum Point Load (T)	Maximum Fork-lift Capacity (T)	Maximum Wall Load (T)	Maximum Joint Spacing (m)
DURUS FLOOR 130	130	2	2	2	6
DURUS FLOOR 160	160	3	3	3	6
DURUS FLOOR 190	190	4	4	4	6

DESIGN ASSUMPTIONS: Concrete grade C32/40; **2.5Kg m3 of Durus® EasyFinish**; Minimum sub-grade CBR = 5%; LGV/HGV data from UK Department of Transport 2003; For loadings outside these parameters contact **Adfil** for specialist advice

Joint recommendations can be obtained via the full flooring guide

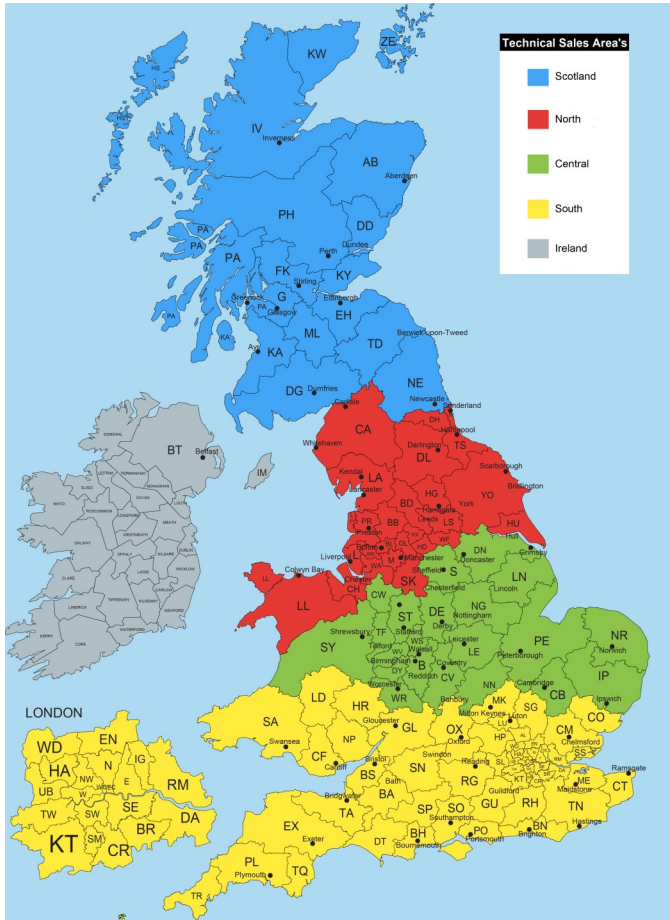
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UK Technical Sales Areas

Assistance



For any assistance please contact one of the following to get appropriate technical support:

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+44 (0)7785616975

Central :

+44 (0)7801300966

Southern :

+44 (0)7824015717

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