

Asphalt – Benefits/features matrix

Branded asphalt products

Additive options	Tuff range											Dura range							Sports range		Airfield		
	Tuffgrip®	Tuffpave®	Tuffdrive®	Tuffdrain®	Tufflex®/Tufflex® XD	Tufflex®+	Tufflex® TX	Tufflex® D	Tufflex® HD/HD+	Tufflayer® (SAML)	Durafalt PMB	Durafalt (942)	Durafalt®-fill	Durodrive®	Durafalt® HD and HD+	Durafalt® D	Duralayer (+) Multi	Duralayer Velo	Duralayer path	Courtfalt®	Courtfalt® Multi	BBA	O49 SMA
era 100 era 140 era®	era 140	era 140	era 140	era 140	era 140	era 140	era 140	era 140	era 140	era 140	era 140	era 140	era 140	era 140	era 140	era 140	era 140	era 140	era 140	era 140	era 140		
CL CarbonLock®	CL	CL	CL	CL	CL	CL	CL	CL		CL		CL	CL			CL	CL	CL	CL	CL	CL	CL	CL
AL AgeLast®	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL											AL	AL
RAP RAP	RAP	RAP	RAP		RAP	RAP	RAP	RAP	RAP		RAP	RAP	RAP	RAP	RAP	RAP	RAP	RAP	RAP				
RP RecyclePlast®			RP	RP	RP	RP	RP	RP	RP	RP													
CA CleanAir®	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA	CA

Standard asphalt products

Additive options	Hot rolled asphalt (HRA)	Stone mastic asphalt (SMA)	Asphalt concrete (AC)
era 100 era 140 era®		era 140*	era 140
CL CarbonLock®		CL*	CL*
AL AgeLast®		AL	AL
RAP RAP		RAP	RAP
RP RecyclePlast®		RP*	RP*
CA CleanAir®		CA	CA

*Please contact the technical team about this option: asphaltsales@heidelberg.co.uk

era 140 **era®**
era 140 is our warm mix asphalt option. It can cut scope 1 CO₂ emissions by up to 15% compared with hot mix asphalt and, importantly, can be used to produce a number of different products with recycled or secondary aggregates. era 140 offers increased durability, enhancing these savings.

era 100
era 100 is our half warm mix asphalt option offering carbon reductions up to 50%.

CA **CleanAir®**
CleanAir helps to minimise the impact of asphalt production and laying on local air quality by reducing the emissions of specific gases and particulate matter from asphalt mixes. This is particularly beneficial for ultra-low emission zones and areas of confined spaces such as tunnels.

CleanAir can reduce emissions of nitrogen oxides, sulphur dioxide, volatile organic compounds (VOCs) and particulates by up to 40% compared to conventional hot mix asphalt.

CL **CarbonLock®**
CarbonLock asphalt contains biogenic material within the binder, which absorbed and stored atmospheric CO₂ during its formation. This CO₂ is 'locked' into the material for its entire service life, even when planed and recycled.

CarbonLock can be produced using our era 140 warm mix process, which allows the asphalt to be manufactured at a lower temperature.

As a result, CarbonLock provides at least a 25% reduction in scope 3 carbon emissions compared with standard hot mix asphalt.

AL **AgeLast®**
AgeLast asphalts contain an additive that reduces the rate of bitumen ageing to delay the onset of embrittlement and prolong the life of asphalt surfacing. This reduces the need for intervention and associated carbon emissions.

AgeLast materials can be produced using our era 140 warm mix process, reducing the CO₂ emissions associated with production, compared with traditional hot mix asphalt.

RP **RecyclePlast®**
Our RecyclePlast asphalt contains additives derived from waste plastics. It can also be produced at lower temperatures using our era 140 warm mix process.

The chemically modified waste plastic in RecyclePlast is compatible with bitumen without compromising performance. RecyclePlast provides a beneficial use for plastic at the end of its life rather than it going to landfill. RecyclePlast can also be recycled back into new asphalt at the end of its life.

RAP **RAP**
Asphalt is 100% recyclable and can be incorporated back into new asphalt at the end of its service life.

Using recycled asphalt plantings (RAP) in the production process reduces the use of primary aggregates and bitumen, preserving natural resources for future generations.

The addition of RAP fully supports the circular economy and significantly reduces the carbon emissions associated with the production of asphalt.

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	Tuff range										Dura range								Sports range		Airfield				
	Tuffgrip®	Tuffpave®	Tuffflex® TX	Tuffflex®/Tuffflex® XD	Tuffflex®+	Tuffflex® D	Tuffflex® HD/HD+	(SAMI) Tufflayer®	Tuffdrive®	Tuffdrain®	Durafalt PMB	Durafalt (942)	Duralayer Multi® and Multi®+	Duralayer Path	Duralayer Velo	Durafalt® HD and HD+	Dura-drive®	Durafalt® D	Durafalt® -fill	Courtfalt®	Courtfalt® Multi	BBA	049 SMA		
Sustainability																									
Enhanced durability - whole life cost benefit	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Improved efficiency	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Cost-effective over the whole life	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Designed for improved drainage/hydraulic conductivity																						■	■		
Workability benefits			■	■	■	■							■				■		■					■	■
Quicker installation	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■					■
Approval process	■	■						■			■	■													
Single layer application			■	■	■	■	■						■	■	■		■		■						
Sustainability	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Applications																									
Highways - Major	■	■		■	■	■	■	■			■	■	■				■	■							
Highways - Local	■	■	■	■	■	■	■	■			■	■	■				■	■	■						
Car parks				■	■	■			■	■			■			■		■							
Housing				■	■	■			■	■			■	■		■		■							
Driveway and car parks				■	■	■			■	■			■			■		■							
Sport										■											■	■			
Industrial/commercial				■	■	■	■	■					■				■	■							
Airports																							■	■	
Agricultural/farm use				■	■	■	■						■												
Durability																									
Enhanced durability	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Low air void which prevents water ingress	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■					
Improved scuff resistance	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		■			
Premium polymer modified bitumen (PMB)	■	■	■	■	■	■	■	■	■	■	■						■							■	
Fuel resisting properties (+ versions)					■	■											■								
Fatigue resistance				■	■	■	■	■			■						■							■	
Multi-layer crack resisting asphalt solution			■	■	■	■		■									■							■	
Skid resistance																									
Range of aggregate PSV sources	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Reduced texture and increased tyre contact patch				■	■	■	■						■				■								
Reduced rolling resistance	■	■	■	■	■	■	■				■	■	■	■	■		■	■							
Deformation resistance																									
Deformation resistance	■	■	■	■	■	■	■	■	■	■	■	■	■			■	■	■						■	■
Increased stiffness	■	■	■	■	■	■	■		■		■	■	■			■	■							■	■
Heavy duty slow moving vehicles										■														■	■
Noise and spray																									
Noise reduction	■	■	■	■	■	■	■				■	■	■				■	■						■	■
Spray reduction	■	■	■						■		■	■					■	■						■	■
Nominal size options																									
4mm				■	■			■					■	■	■										
6mm	■	■		■	■	■	■	■	■	■			■	■	■	■	■	■	■		■	■			
10mm	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■			
14mm	■	■	■	■	■	■	■			■	■	■	■	■			■	■			■			■	■
20mm	■	■	■	■	■	■	■			■			■								■				

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