

ASPHALT IN FIGURES 2021



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EAPA is the European industry association which represents the manufacturers of bituminous mixtures, companies engaged in asphalt road construction and maintenance as well as the additive and equipment producers. It has the mission to ensure that the use of asphalt, as the optimum choice for the construction and maintenance of the vital European road infrastructure, is fully appreciated, promoted and implemented. Conscious of the importance of providing information to the public, EAPA is pleased to present to you the data of 'Asphalt in Figures' for the year 2021.

*Juan José Potti
President EAPA*



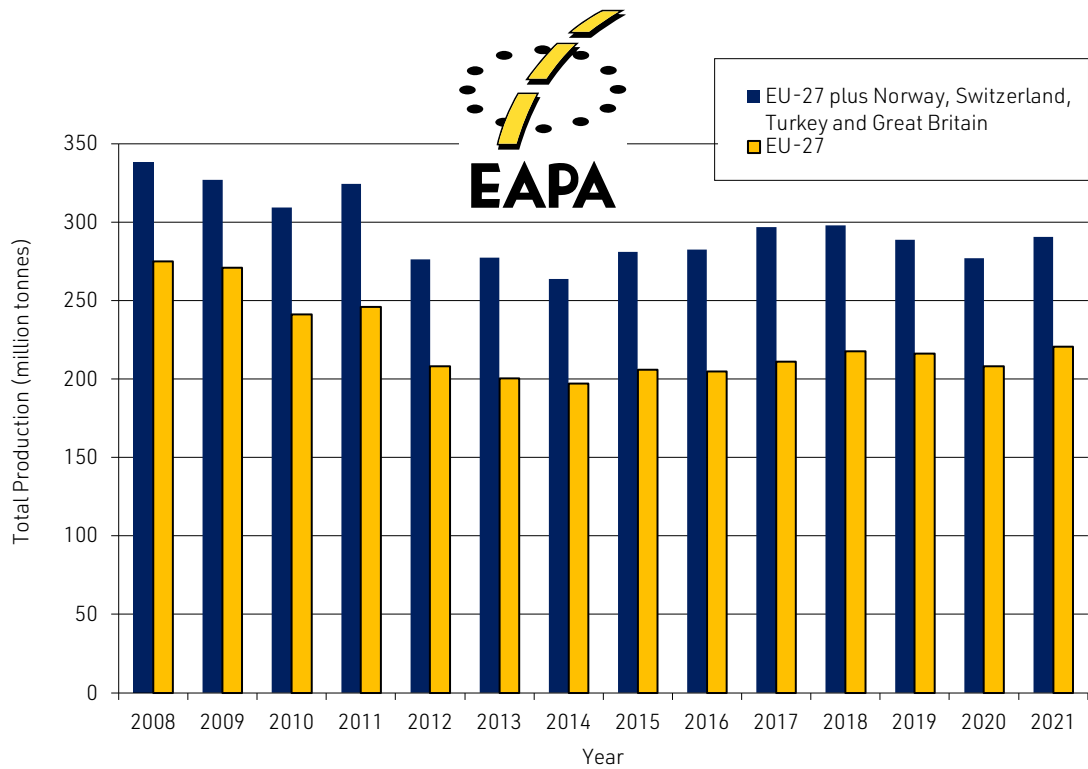
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KEY FIGURES OF THE EUROPEAN ASPHALT INDUSTRY IN 2021

This document provides an overview of the figures of the European asphalt sector until the year 2021. The data refers to production, types of asphalt, applications, binders, re-use/recycling rates, number of companies and production sites. These figures have been established e.g. with the assistance of the members of the European Asphalt Pavement Association, being at the moment the best available and most reliable data for the asphalt industry.

In some cases, data from some countries were not available, which was marked in the tables as "no data" and accounting zero for the calculation of total figures. In other cases, some countries did not provide the data of a certain year, but this could be estimated based on the historic series of data they did provide over the previous years. This is marked with "*" next to the estimated value.

FIGURE 1. GRAPH OF TOTAL PRODUCTION



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TABLE 1. TOTAL PRODUCTION

TOTAL PRODUCTION OF HOT AND WARM MIX ASPHALT FROM 2011 TO 2021 (IN MILLION TONNES)

Country	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Austria	8,0	7,2	7,0	7,2	7,2	7,4	7,4	7,5	7,5	7,4	7,3
Belgium	5,9	5,6	5,3	5,2	5,0	5,1	5,6	5,8	5,2	4,3	4,6
Bulgaria	no data	no data	no data	no data	2,0*	2,0*	2,0*	2,0*	2,0*	2,0*	2,0*
Croatia	2,6	2,5	2,8	2,3	2,2	2,2	2,2	2,5	2,6	2,3	2,7
Cyprus	no data	no data	no data	no data	no data	0,2*	0,2*	0,2*	0,2*	0,2*	0,2*
Czech Republic	5,8	5,6	5,4	6,4	8,0	6,7	7,4	7,9	6,8	6,7	7,2
Denmark	4,0	3,6	3,7	3,7	3,7	3,8	4,0	3,9	3,5	3,9	3,6
Estonia	1,3	1,1	1,2	1,3	1,5	1,5	1,7	1,6	1,6	1,7	1,7
Finland	5,0	4,5	4,5	4,7	5,4	5,9	6,4	6,1	5,5	7,6	6,1
France	39,2	35,3	35,4	31,9	31,5	33,6	33,7	35,0	35,8	31,9	34,7
Germany	50,0	41,0	41,0	39,0	39,0	41,0	42,0	41,0	40,0	38,0	38,0
Great Britain	22,4	18,5	19,2	20,6	21,9	22,0	22,7	22,9	25,2	23,0	25,7
Greece	2,3	1,6	2,7	2,7*	2,5*	2,3*	2,3*	2,3*	2,3*	2,3*	2,3*
Hungary	2,3	2,5	2,7	3,8	3,9	2,8	2,6	4,7	5,0	4,8	4,9
Iceland	0,2	0,2	0,2	0,3	0,3	0,3*	0,3*	0,3*	0,3*	0,3*	0,3*
Ireland	1,8	1,9	1,8	1,8	1,9	1,9	2,0	1,9	2,0	1,9	1,9
Italy	28	23,2	22,3	22,3	23,1	23,1	23,7	26,0	30,1	30,1*	37,6
Latvia	0,6*	0,6*	0,6*	0,6*	0,6*	0,6*	0,6*	0,6*	0,6*	0,6*	0,6*
Lithuania	1,6	1,3	1,3*	1,3*	1,6	1,6	1,6*	1,6*	1,6*	1,6*	1,6*
Luxembourg	0,7	0,6	0,7	0,7*	0,7	0,7*	0,9	0,9*	0,9*	0,9*	0,9*
Malta	no data	no data	no data	no data	no data	0,1*	0,1*	0,1*	0,1*	0,1*	0,1*
Netherlands	9,6	9,2	9,7	9,0	8,0	8,2	8,1	7,9	7,7	7,1	7,2
Norway	6,7	6,3	6,4	7,0	6,9	7,2	7,8	7,5	7,7	6,9	6,9
Poland	26,5	21,1	18,2	16,5	18,5	19,0*	19,0*	19,0*	19,0*	19,0*	19,0*
Portugal	6,4	6,4*	6,4*	6,4*	6,4*	6,2*	6,2*	6,2*	3,1	3,4	4,0
Romania	3,6	3,2	4,1	4,5	4,5*	4,5*	4,5*	4,5*	1,7	1,0	1,0*
Serbia	no data	no data	no data	1,3	1,3	1,3*	1,3*	1,3*	1,3*	1,3*	1,3*
Slovakia	2,2	1,9	1,6	1,5	2,7	1,9	2,0	2,3	2,4	2,2	2,4
Slovenia	1,3	1,1	1,2	1,4	1,6	1,6	1,8	2,0	1,9	1,9	2,1
Spain	29,3	19,5	13,2	14,5	16,4	13,1	15,2	16,0	18,8	17,1	18,9
Sweden	8,1	7,7	7,6	8,5	8,2	8,2*	8,2*	8,2*	8,2*	8,2*	8,2*
Switzerland	5,4	4,8	4,8	6,5	6,5*	6,5*	6,5*	6,5*	5,5	5,5*	5,5*
Turkey	43,5	38,4	46,2	30,9	37,9	40,4	46,9	41,7	32,7	31,7	30,3
EU-27	246,1	208,2	200,5	197,1	206,0	204,9	211,2	217,6	216,2	208,3	220,7
Europe	324,3	276,4	277,3	263,7	280,9	282,5	296,7	297,9	288,9	276,9	290,6
USA	332,0	326,9	318,1	319,0	331,0	340,0	344,0	353,0	382,0	370,0	392,0
South Africa	5,7	5,7	5,5	5,4	4,8	4,8	4,1	4,2	4,1	2,3	2,8

Data marked with "*" estimated based on historic data

The figures of Great Britain until 2018 refer only to Members of the Mineral Products Association. The values from 2019 are extrapolations for the whole country. For MPA Members only, the value of 2021 is 23,3Mt

The figures of Romania refer only to the maintenance and construction of the national road network and highways. Departmental roads or streets in city are not included.

The figures of Europe include data from EU-27 countries plus Great Britain, Norway, Switzerland and Turkey.

TABLE 2. SURFACE, BINDER AND BASE COURSE

APPLICATION IN SURFACE-, BINDER- AND BASE COURSES OF TOTAL ANNUAL HOT AND WARM MIX ASPHALT PRODUCTION IN 2021 (IN %)

Country	Surface course	Binder course	Base course
Austria	60	15	25
Belgium	54	0	46
Croatia	63	2	35
Czech Republic	55	23	22
Denmark	49	4	47
Estonia	66	6	29
Finland	91	0	9
Hungary	73	23	4
Norway	80	10	10
Portugal	70	19	11
Slovakia	64	27	9
Slovenia	54	11	35
Spain	68	22	10
Turkey	43	37	20

TABLE 3(A). SURFACE COURSES

USE OF DIFFERENT TYPES OF ASPHALT MIXES IN SURFACE COURSES IN 2021 (IN %)

Country	Asphalt concrete EN 13108-1	Asphalt concrete for very thin layers EN13108-2	Soft Asphalt EN 13108-3	Hot Rolled Asphalt EN 13108-4	Stone Mastic Asphalt EN 13108-5	Mastic Asphalt EN 13108-6	Porous Asphalt EN 13108-7
Austria	85,0	0,0	0,0	0,0	14,0	1,0	0,0
Belgium	72,4	0,2	0,0	0,0	25,1	1,4	0,9
Croatia	94,0	0,3	0,0	0,0	5,7	0,0	0,0
Czech Rep.	85,0	0,2	0,0	0,0	13,0	1,3	0,5
Denmark	64,3	0,0	0,0	0,0	35,1	0,0	0,6
Estonia	93,0	0,0	0,0	0,0	6,0	0,0	1,0
Finland	78,4	0,0	5,6	0,0	15,6	0,4	0,0
France	no data	no data	no data	no data	no data	0,3	no data
Hungary	96,2	0,0	0,0	0,0	3,7	0,1	0,004
Italy	90,0	0,0	0,0	0,0	1,0	0,0	9,0
Portugal	94,0	0,0	0,0	0,0	5,0	0,0	1,0
Slovakia	91,8	0,0	0,0	0,0	7,5	0,7	0,2
Slovenia	88,0	0,0	0,0	0,0	11,0	0,0	1,0
Spain	84,5	11,3	0,0	0,0	3,2	0,0	1,1
Turkey	95,3	0,0	0,0	0,0	4,7	0,0	0,0



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SUSTAINABILITY

REVOC-SYSTEM

CATALYST SYSTEM FOR ASPHALT MIXING PLANTS

BENNINGHOVEN presents a new patented and pioneering technology: the REVOC system. This technology allows plant owners to implement higher recycling addition rates while complying with stricter emissions limits. REVOC supplements existing hot and cold recycling systems in asphalt mixing plants, reducing total carbon emissions (VOC) with up to 50 % recycling material added. Specified limits are not exceeded. In Germany, for example, the level remains below the maximum specified by the TA-Luft regulation. The system can be retrofitted and thus contributes to securing the site. With increased plant performance, high recycling content and reduced emissions, plant owners are perfectly prepared for the future.

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TABLE 3(B). SURFACE COURSES

APPLIED AREA OF DIFFERENT TYPES OF ASPHALT MIXES IN SURFACE COURSES IN 2021 (IN MILLION M²)

Country	Asphalt concrete EN 13108-1	Asphalt concrete for very thin layers EN13108-2	Soft Asphalt EN 13108-3	Hot Rolled Asphalt EN 13108-4	Stone Mastic Asphalt EN 13108-5	Mastic Asphalt EN 13108-6	Porous Asphalt EN 13108-7
Belgium	19,77	0,06	0,00	0,00	6,86	0,38	0,24
Croatia	16,00	0,19	0,00	0,00	0,99	0,00	0,00
Czech Rep.	23,00	0,10	0,00	0,00	8,50	0,60	0,20
Denmark	14,80	0,00	0,00	0,00	7,70	0,00	0,20
France	no data	no data	no data	no data	no data	2,60	no data
Hungary	4,54	0,00	0,00	0,00	0,20	0,03	0,002
Portugal	12,50	0,00	0,00	0,00	0,70	0,00	0,02
Slovakia	3,01	0,00	0,00	0,00	0,25	0,06	0,00
Slovenia	11,60	0,00	0,00	0,00	1,40	0,00	0,10

TABLE 4(A). WARM MIX ASPHALT

PRODUCTION OF WARM MIX ASPHALT FROM 2013 TO 2021 (IN MILLION TONNES)

Warm Mix Asphalt (WMA): bituminous mixture, as defined in Standard Series EN 13108, manufactured by using a series of technologies, which allow a significant reduction of production and installation temperatures, compared to the equivalent hot mix asphalt.

Note 1: this definition excludes asphalt mixes manufactured with bituminous emulsion.

Note 2: normally temperature reductions are of at least 20 K.

Country	2013	2014	2015	2016	2017	2018	2019	2020	2021
Austria	0,000	0,000	0,000	0,000	no data	no data	no data	no data	no data
Belgium	no data	no data	<0,05	no data	<0,050	0,100	0,200	0,300	4,630*
Croatia	0,000	0,040	0,060	0,060	no data	no data	no data	0,075	0,080
Czech Rep.	0,030	0,001	0,020	0,007	0,070	0,080	0,001	0,001	0,010
Denmark	0,120	0,200	0,200	0,250	0,340	0,330	0,320	0,320	0,330
Estonia	no data	no data	no data	no data	no data	no data	no data	no data	0,00015
Finland	0,000	0,120	0,240	0,310	0,430	0,310	0,200	0,200	0,200
France	3,550	4,023	4,552	4,324	3,824	3,728	4,305	4,058	6,520
Great Britain ¹	<1,000	<1,000	no data	<0,300	<1,000	<1,000	>1,000	1,000	1,000*
Hungary	0,020	0,038	0,070	0,208	0,210	0,000	0,180	0,350	0,000
Netherlands	0,060	0,133	0,100	0,100*	0,060	no data	no data	no data	no data
Norway	0,380	0,540	0,592	0,502	0,869	1,339	1,740	1,851	1,754
Portugal	no data	no data	no data	no data	no data	no data	0,100	0,500	1,010
Slovakia	no data	no data	0,014	0,035	0,050	0,030	0,035	0,004	0,011
Slovenia	0,000	0,000	0,000	0,000	0,050	0,002	0,000	0,040	0,001
Spain	0,086	0,140	0,140	0,060	0,200	0,180	0,380	0,500	0,650
Switzerland	0,870	0,388	no data	no data	no data	no data	0,500	no data	no data
Turkey	no data	no data	0,080	0,151	0,077	0,000	0,000	0,000	0,000
USA ²	69,0	103,0	109,0	106,0	133,0	143,0	150	169	85

* Data not available. Estimated based on historic data

¹ Figures from Great Britain are estimated (data not provided from all MPA members and extrapolated).

² Figures from USA up to 2020 include also the production of asphalt at HMA temperature but using WMA technologies. The values of WMA actually produced at reduced temperature were 72,1 Mt in 2018, 72,0 Mt in 2019 and 84,0 Mt in 2020. The figure in 2021 refers to WMA at reduced temperature.

TABLE 4(B). COLD BITUMINOUS MIXES

PRODUCTION OF COLD BITUMINOUS MIXES FROM 2011 TO 2021 (IN TONNES)

Cold Bituminous Mixtures: the aggregate is not heated before being mixed with the binder. Consider only mixes manufactured at ambient temperature, with emulsion, including in-plant re-use and excluding in-situ re-use

Country	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Austria	20.000	20.000	30.000	no data	no data	no data	no data	no data	no data	no data	no data
Belgium	33.000	27.000	30.000	no data	20.000	20.000	10.000	5.000	no data	no data	15.000
Croatia	21.000	23.000	32.000	no data	no data	no data	no data	no data	no data	no data	0
Czech Rep.	9.907	4.421	9.570	40.000	5.400	5.000	4.000	4.000	6.000	6.000	7.000
France	1.600.000	1.460.000	1.550.000	1.418.000	1.808.000	1.858.000	1.977.000	1.975.000	1.622.000	1.741.000	2.220.000
Hungary	40.000	15.400	58.800	40.000	60.000	30.000	50.000	50.000	60.000	70.000	40.000
Portugal	no data	no data	no data	no data	no data	no data	no data	no data	30.000	50.000	30.000
Romania	13.000	2.000	2.625	no data	no data	no data	no data	no data	8.000	109.000	109.000*
Slovakia	3.000	0	no data	0	1.000	2.400	1.000	1.000	3.000	0	600
Spain	200.000	92.400	86.700	150.000	94.000	190.000	80.000	100.000	110.000	110.000	83.000
Sweden	60.000	90.000	90.000	100.000	100.000	no data	no data	no data	no data	no data	no data

* Data not available. Estimated based on historic data

TABLE 4(C). SURFACE APPLICATIONS

APPLICATION OF SLURRY SEAL (SS) & MICRO-SURFACING (MS) AND SURFACE DRESSING (SD) IN 2021 (IN MILLION M²)

Country	Slurry Seal & Micro-Surfacing	Trend '20/'21	Surface Dressing
Croatia	0,03	no data	no data
Czech Republic	1,80	=	0,70
Denmark	0,00	<	2,40
Estonia	no data	no data	19,69
Finland	no data	no data	0,95
France	36,00	<	137,00
Hungary	0,05	<	0,48
Portugal	0,41	<	0,10
Romania	2,125*	no data	no data
Slovakia	0,48	>	0,15
Spain	36,90	>>	4,06
Turkey	no data	no data	205,40

* Data not available. Estimated based on historic data

TABLE 5. RE-USE AND RECYCLING

RE-USE AND RECYCLING OF RECLAIMED ASPHALT IN 2021

Country	Total amount of site-won asphalt generated in 2021 in tonnes	Amount of reclaimed asphalt available to be used by the asphalt industry in 2021 in tonnes	% of available reclaimed asphalt used in							Total Re-use	Total Recycling	Total Landfill
			Hot and Warm Mix Asphalt Production	Half Warm Mix Asphalt Production	On-Site Cold Recycling**	Plant Cold Recycling**	Unbound Road Layers	Other Civil Engineering Applications	Put to Landfill /Other Applications/ Unknown			
Austria	1.850.000	900.000	85	0	5	0	10	0	0	90	10	0
Belgium	1.343.000	1.506.000	no data	no data	no data	no data	no data	no data	no data	71	no data	no data
Croatia	390.000	390.000	30	0	11	6	0	0	53	47	0	53
Czech Rep	2.700.000	2.400.000	20	0	25	5	25	10	15	50	35	15
Denmark	1.372.000*	1.172.000	85				15	no data	no data	85	15	no data
Finland	1.000.000	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
France	9.000.000	6.900.000	77		no data	no data	no data	no data	no data	77	23	0
Germany	14.000.000	11.600.000*	85	0	0	0	15	0	0	85	15	0
Great Britain	6.215.331*	3.100.000*	no data	no data	no data	no data	no data	no data	no data	36*	64*	<1*
Hungary	250.000*	160.000	98	0	0	0	2	0	0	98	2	0
Ireland	500.000*	200.000*	45*	no data	no data	no data	no data	no data	no data	45	no data	no data
Italy	11.000.000	no data	30	70						no data	no data	no data
Norway	1.129.512	1.172.618	46	0	0	1	54	0	0	46	54	0
Slovakia	82.134	70.946	63	0	29	0	8	0	0	92	8	0
Slovenia	200.000	79.000	40	0	3	2	5	18	32	45	23	32
Spain	3.050.000	2.495.000	61	0	6	0	15	18	0,01	66	34	0
Turkey	1.927.000	20.000	0,5	0	0	0,5	99	0	0	1	99	0
USA	91.000.000	90.000.000	95	0	0	0,1	4	0,2	0,1	95	4	0,1

* Data not available. Estimated based on historic data

** Cold recycling includes stabilisation with bitumen emulsion, foamed bitumen and/or cement.

Site-won asphalt is material in the form of milled asphalt road layers or as slabs ripped up from asphalt pavements, or being asphalt from reject, surplus or failing production. These materials will require assessment and often processing before being suitable as a constituent material.

Reclaimed asphalt (RA) is the processed site-won asphalt, suitable and ready to be used as constituent material for asphalt, after being tested, assessed and classified according to the standard EN 13108-8. Processing can include one or more of: milling, crushing, sieving (screening), blending, etc.

Asphalt re-use: operation by which reclaimed asphalt (RA) is reincorporated into the pavement, with the aggregates and the aged bituminous binder performing the same function as in their original application. Note: This is independent of manufacturing temperature, road layer, etc. Hence, it would include, for example, the manufacturing of cold mix asphalt from former warm or hot mix asphalt.

Asphalt recycling: operation by which reclaimed asphalt (RA) is used as foundation, fill or road material, with the recovered aggregate and bitumen performing a lesser (or alternative engineering) function than in the original application. Note: This means that, traditionally, the term "recycling" has been mistakenly used to also refer to "re-use" operations.

TABLE 6. COMPANIES IN THE ASPHALT INDUSTRY

COMPANIES IN THE ASPHALT INDUSTRY IN THE PERIOD 2019 - 2021

Country	Production only			Production & Laying			Laying only		
	2019	2020	2021	2019	2020	2021	2019	2020	2021
Austria	0	0	no data	67	67	67	0	0	no data
Belgium	3	3	3*	17	17	17*	no data	no data	no data
Croatia	no data	no data	no data	no data	no data	48	no data	no data	10
Czech Republic	28	29	29	25	23	22	>40	>40	>40
Denmark	1	0	0	6	7	6	~10	~10	~10
Estonia	2	2	2	8	8	8	16	15	14
Finland	0	0	0*	10	10	10*	15	15	15*
France	0	0	0*	30	30	30*	1.383	1383	1383
Germany	260	255	257	150	148	142	3.000	3.000	>3000
Great Britain ₁	15	10	10	18	25	25	>200	>200	>200
Hungary	2	2	2	33	35	36	45	50	51
Ireland	1	1	1	18	22	23	30	25	20*
Italy	400	400*	400	380	380*	390	>2500	>2.500*	>2.500
Norway	3	2	1	12	11	11	no data	no data	no data
Portugal	64	10	5	no data	49	65	no data	10	36
Slovakia	0	2	2	21	30	30	15	5	5
Slovenia	3	2	3	13	14	15	45	>40	>40
Spain	6	6	6	225	225	225	150	150	150
Turkey	11	11	10	349	349	332	>100	>100	>100

* Data not available. Estimated based on historic data

₁ The figures of Great Britain until 2018 refer only to Members of Mineral Products Association. The value of 2019 is an extrapolation for the whole country. For MPA Members only, the number of production-only companies of 2019 is 21

TABLE 7. PRODUCTION SITES

NUMBER OF PRODUCTION SITES IN THE PERIOD 2019 - 2021

Country	Stationary Plants			Mobile plants			All plants that are fit for hot and warm recycling****		
	2019	2020	2021	2019	2020	2021	2019	2020	2021
Austria	114	114	114	no data	no data	no data	85	90	no data
Belgium	36	36	36	0	0	0	15	15	31
Croatia ***	53*	53*	56	1*	1*	0	14*	14*	22
Czech Republic	102	103	108	2	2	2	77	78	85
Denmark	37	38	37	no data	no data	no data	36	37	36
Estonia	9	10	11	13	12	13	16	17	18
France ***	423	433	423	39	40	40	>370	>370	>370
Germany	553	541	535	no data	no data	no data	549	538	530
Great Britain ***	256	265	275	275	no data	no data	no data	170*	145*
Hungary	87	90	91	3	3	4	50	50	50
Ireland	39	42	43	1	no data	no data	7	17	18
Italy ***	380	380*	390	20	20*	10	no data	no data	400
Norway	85	85	75	5	5	4	64	65	72
Portugal ***	103	69	85	14	24	21	48	44	40
Slovakia	50	50	50	4	4	4	21	0	0
Slovenia	16	16	16	2	2	2	6	6	6
Spain	220	325	325	70	70	70	25	114	127
Turkey ***	136	136	144	527	527	523	15*	no data	no data

* Data not available. Estimated based on historic data

** One or more plants are operated and owned by the road administration

*** One or more plants are operated and owned by the road administration and/or municipalities

**** Total of stationary and mobile plants

***** This can be all types, e.g. batch plants and/or drum mixer plants and/or plants with parallel drum.

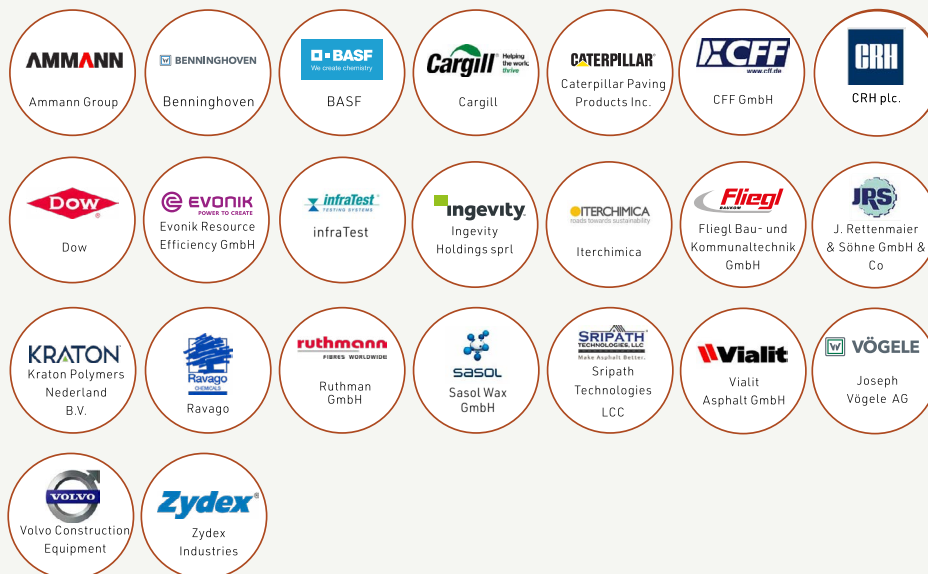
INTERESTING SITES

www.eapa.org	European Asphalt Pavement Association
www.sdruzeni-silnice.cz	Road Contractors Association Prague
www.asfaltindustrien.dk	Danish Asphalt Pavement Association
www.vbwasfalt.nl	Dutch Asphalt Pavement Association
www.asfaldiliit.ee	Estonian Asphalt Pavement Association
www.infra.fi	Infra Contractors' Association, Finland
www.routesdefrance.com	Routes de France
www.asphalt.de	German Asphalt Association
www.gestrata.at	Gestrata, Austria
www.hapa.hu	Hungarian Asphalt Pavement Association
www.siteb.it	Italian Asphalt Association
www.eba.no	EBA - Norwegian Contractors Association
www.pswana.pl	Polish Asphalt Pavement Association
www.apdp.ro	Professional Association of Roads and Bridges of Romania
www.mischgut-industrie.ch	Schweizerische Mischgut-Industrie
www.saaav.sk	Slovakian Asphalt Pavement Association
www.zdruzenje-zas.si	Slovenian Asphalt Pavement Association
www.asefma.es	Spanish Asphalt Association
www.asnud.org.tr	Turkish Asphalt Contractors Association
www.mineralproducts.org	UK Minerals Products Association
www.vegagerdin.is	Icelandic Road Administration
www.pch.public.lu	L'administration des Ponts et Chaussées Luxembourg
www.lra.lt	Lithuanian Road Administration
www.h-a-d.hr	Croatian Asphalt Association
www.highway.rs	Highway Institute Serbia
www.asphaltpavement.org	US National Asphalt Pavement Association
www.aapa.asn.au	Australian Asphalt Pavement Association
www.ohmpa.org	Ontario Hot Mix Producers Association
www.sabita.org	South African Asphalt and Bitumen Association
www.dohkenkyo.or.jp	Japan Road Contractors Association

MEMBERS



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