# 2.D.3.b - Road Paving

# **Short description**

Categ	ory Code			Met	hod					A	)				EF	:	
2.D.3.k	)			T	1					AS	5				CS	5	
Key C	ategory	SO2	NO×	NH₃	NM	/OC	СО	BC	Pb	Hg	Cd	Diox	PAH	HCB	TSP	PM10	PM2 5
2.D.3.k	)	-/-	-/-	-	-,	-	-	-	-	-	-	-	-	-	-/-	-/-	-/-
<b>T</b> = ke	y source b	y Tre	end <b>L</b>	. = k	ey so	urce	e by	Lev	el								
Metho	ods																
		D					faul										
		т1				_			npl	e Me	etho	dolog	IY *				
		Т2				Tie	r 2*										
		Т3							tail	ed N	1eth	nodolo	ogy *				
		С				CO	RIN	٩IR									
		CS				_	untr	y Sp	bec	ific							
		Μ					del										
	escribed ir						n In	ven	tor	y Gu	ide	book	- 201	9, in t	he g	roup s	pecific
	Data Sour			ctivi	ty Da	ata											
	tional Stat																
<u> </u>	gional Sta																
	ernational			5													
	nt Specifi																
	sociations			-			-										
_ · ·	ecific Que		naire	s (or	surv	eys)											
	del / Mode	elled															
	nfidential																
	mission <b>F</b>																
	fault (EME	P Gu	ideb	ook)													
	nfidential																
Country Specific																	
	nt Specifio		а														
M Mo	del / Mode	elled															

Currently, the report tables list produced quantities of mixed asphalt products (from stationary installations only) and NMVOC, NOx and SO2 emissions caused of this. Only emissions from asphalt production are reported. Figures relative to emissions released during laying of asphalt have not been examined.

## Method

#### Activity data

The applicable quantity of mixed asphalt products produced (activity rate) has been taken from communications of the Deutscher Asphaltverband (DAV; German asphalt association). In total about 660 asphalt-mixing plants produce most recently 38 Million tonnes of hot-mix for road paving <sup>1)</sup>.

## **Emission factors**

Emission factors have been determined country-specifically, pursuant to Tier 2. For determination of emission factors for emissions measurements from over 400 asphalt-mixing plants, made during the period 1989 through 2000, were used. The

majority of the emissions occur during drying of pertinent mineral substances. Almost all of the NMVOC emissions originate in the organic raw materials used, and they are released primarily in parallel-drum operation, as well as from mixers and loading areas. On average, about 50% of the NOx and  $SO_x$  involved come from the mineral substances (proportional process emissions). CO emissions are calculated solely in connection with fuel inputs.

Table 1: Overview of applied emission factors, in kg/t

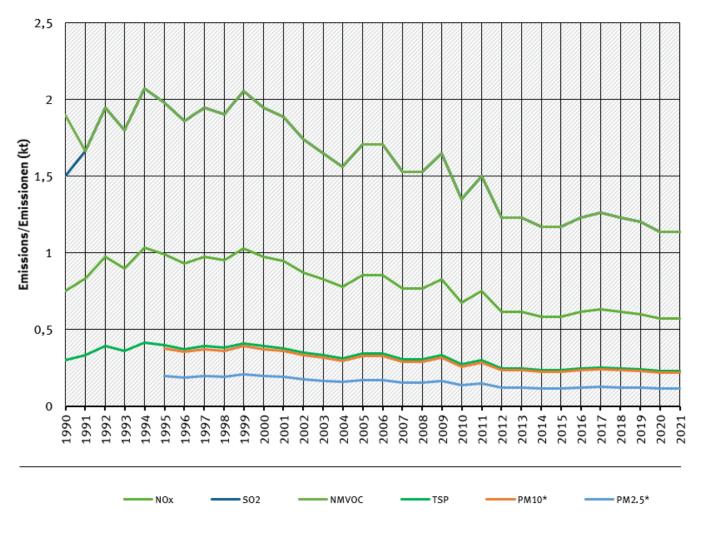
pollutant	Name of Category	EF value	EF trend
NMVOC	Production of mixed asphalt	0.030	constant
NOx	Production of mixed asphalt	0.015	constant
SOx	Production of mixed asphalt	0.030	constant
TSP	Production of mixed asphalt	0.006	constant
PM10	Production of mixed asphalt	0.0057	constant
PM2.5	Production of mixed asphalt	0.003	constant

# **Trends in emissions**

All trends in emissions correspond to trends of production amount. No rising trends are to identify.

## trends of emissions of Road Paving

## Emissions by pollutant / Emissionen nach Schadstoff



### Emission trends of road paving

## Recalculations

With activity data and emission factors remaining unrevised, no recalculations have been carried out compared to last year's submission.



For pollutant-specific information on recalculated emission estimates for Base Year and 2019, please see the pollutant specific recalculation tables following chapter 8.1 - Recalculations.

# **Planned improvements**

At the moment, no category-specific improvements are planned.

<sup>1)</sup> https://www.asphalt.de/themen/aktuelles/