FS Section	Content field	Explanation of content	
1. Title	1.1 Title of SPERC	Industrial application of coatings and inks by non-spray processes	
	1.2 SPERC codes:	CEPE SPERC 4.2a.v2  Application - industrial - non-spray - indoor use - incineration - volatiles  CEPE SPERC 4.2b.v2  Application - industrial - non-spray - indoor use - volatiles  CEPE SPERC 5.3.v2  Application - industrial - non-spray - indoor use - non-volatiles  CEPE SPERC 5.4.v2  Application - industrial - non-spray - indoor use - powder	
	2.1 Substance/Product Domain		
	Substance types / functions / properties included or excluded:	Included: Volatile and non-volatile compounds in liquid mixtures, solids in polymeric liquids Non-volatile compounds in solid Intended compounds not classified as carcinogenic or mutagenic, PBT or vPvB Volatile compounds rapidly degradable Water-borne mixtures may contain biocidal agents of product type 2, 6 or 7	
	Additional specification of product types covered:	Liquid coatings and inks: - solvent-borne up to 95 % volatile content, - liquid solvent-free coatings close to 100 % non-volatile content Powder coatings 100% non-volatile	
2. Scope	Inclusion of sub-SPERCs: y/n	Yes	
	2.2 Process domain		
	Description of activities/processes:	Covers the whole process* of application of organic solvent borne, water borne liquid and powder coatings by industrial users by low-energy processes.  *Includes:  Application Cleaning of equipment Waste management of coatings	
	2.3 List of applicable UDs		
	LCS:	IS (Use at industrial sites)	
	SU:	Various (SU 7, 11, 12, 15, 16, 17, 18, 19)	
	PC:	9a, 18	
	3.1 Conditions of use		
	Location of use:	Indoor	
3. Operational	Water contact during use: y/n	Y	
3. Operational conditions (including information on technical strategies to achieve high raw material efficiency)	Connected to a standard municipal biological STP: y/n	N	
	Rigorously contained system with minimisation of release to the environment: y/n	N	
	Further operational conditions impacting on releases to the environment.		
	3.2 Waste Handling and Disposal		

FS Section	Content field	Explanation of content	
	Waste Handling and Disposal:	Process waste may be recycled or incinerated by waste disposal company	
4. Obligatory RMMs onsite	RMM limiting release to air:	CEPE 4.2a, 4.2b, 5.3 Smaller users (see IED) – none Larger users (see IED)– abatement or of solvent management plan	CEPE 5.4 Filter and cyclone
	RMM Efficiency (air): numerical value	Not applicable	
	Reference for RMM Efficiency (air):		
	RMM limiting release to water:  RMM Efficiency (water): numerical value	Not applicable  Not applicable	
	Reference for RMM Efficiency (water):	Not applicable	
	RMM limiting release to soil:	Not applicable	
	RMM Efficiency (soil): numerical value	Not applicable	
	Reference for RMM Efficiency (soil): 5.1 Substance use rate	Not applicable	
	Amount of substance use per day: numerical value	Typical maximum daily usage, for any one substance, based on sector knowledge 1000 kg product/day at any one location  Substance function Max daily substance use	
		Pigment/extender/filler	rate in kg/d
		Binder	100.0
		Water	350.0
		Organic solvent/coalescent Additives	450.0 5.0
5. Exposure	Fraction of EU tonnage used in	Not relevant as SPERC is not meant fo	r widespread use
Assessment Input	region: numerical value Fraction of Regional tonnage used locally: numerical value	Not relevant as SPERC is not meant for widespread use	
	Justification / information source:	Based on sector knowledge	
	5.2 Days emitting  Number of emission days per year: numerical value	Continuous release: 225 d/y	
	Justification / information source:	Typical industry situation (5 working days a week, shut down for vacation, no need for continuous shift)	
	5.3 Release factors		
	SPERC identifier:	CEPE SPERC 4.2a.v2	
	ERC:	4	
	sub-SPERC applicability:	Application - industrial – non-spray- indoor use - incineration - volatiles	
	5.3.1 Release Factor – air		
	Numeric value / percent of input amount (Air): numerical value	0.5%  97.5% solvent inputs emitted through Incinerator with efficiency 99%	
	Justification of RFs (Air):	OECD Coatings ESD, coil coatings	
	5.3.2 Release Factor – water		

FS Section	Content field	Explanation of content
	Numeric value / percent of input	0
	amount (Water): numerical value	OFCD Costings FCD soil costings
	Justification of RFs (Water):	OECD Coatings ESD, coil coatings
	5.3.3 Release Factor – soil	
	Numeric value / percent of input amount (Soil): numerical value	0
		There is no deposition to soil from indoor application processes.
	Justification of RFs (Soil):	OECD ESD
	5.3.4 Release Factor – waste	
	Percent of input amount disposed as waste: numerical range	1.5-2.5 %
	Justification of RFs:	OECD Coatings ESD, flatline furniture/coil coatings
	SPERC identifier:	CEPE SPERC 4.2b.v2
	ERC:	4
	sub-SPERC applicability:	Application - industrial – non-spray- indoor use - volatiles
	5.3.1 Release Factor – air  Numeric value / percent of input amount (Air): numerical value	97.5%
	Justification of RFs (Air):	For a coating film to form, the volatile phase of organic solvent borne and water borne coatings must evaporate into the atmosphere.  OECD Coatings ESD
	5.3.2 Release Factor – water	
	Numeric value / percent of input amount (Water): numerical value	0
	Justification of RFs (Water):	OECD Coatings ESD, coil coatings
	5.3.3 Release Factor – soil	
	Numeric value / percent of input amount (Soil): numerical value	0
		There is no deposition to soil from indoor application processes.
	Justification of RFs (Soil):	OECD ESD
	5.3.4 Release Factor – waste	
	Percent of input amount disposed as waste: numerical range	1.5-2.5 %
	Justification of RFs:	OECD Coatings ESD, flatline furniture/coil coatings
	SPERC identifier:	CEPE SPERC 5.3.v2
	ERC:	5
	sub-SPERC applicability:	Application - industrial – non-spray- indoor use – non-volatile
	5.3.1 Release Factor – air	
	Numeric value / percent of input amount (Air): numerical value	0

FS Section	Content field	Explanation of content
		OECD ESD (flatline furniture coating)
	Justification of RFs (Air):	OLOD COD (Matinio rannitato occarrig)
	5.3.2 Release Factor – water	
	Numeric value / percent of input amount (Water): numerical value	0.2%
	Justification of RFs (Water):	Lost through cooling of rollers.
		OECD Coatings ESD, coil coatings
	5.3.3 Release Factor – soil	
	Numeric value / percent of input amount (Soil): numerical value	0
		There is no deposition to soil from indoor application processes.
	Justification of RFs (Soil):	OECD ESD
	5.3.4 Release Factor – waste	
	Percent of input amount disposed as waste: numerical range	1.5-2.5 %
	Justification of RFs:	OECD Coatings ESD, flatline furniture/coil coatings
	SPERC identifier:	CEPE SPERC 5.4.v2
	ERC:	5
	sub-SPERC applicability:	Application - industrial – non-spray- indoor use - powder
	5.3.1 Release Factor – air	
	Numeric value / percent of input amount (Air): numerical value	0.08
	Justification of RFs (Air):	Fluidised bed, emissions captured by cyclone or bag filters
	5.3.2 Release Factor – water	
	Numeric value / percent of input amount (Water): numerical value	0
	Justification of RFs (Water):	There is no emission to water during application and drying.
	5.3.3 Release Factor – soil	
	Numeric value / percent of input amount (Soil): numerical value	0
	Justification of RFs (Soil):	There is no deposition to soil from indoor application processes.
		OECD ESD
	5.3.4 Release Factor – waste	
	Percent of input amount disposed as waste: numerical range	0.5%
	Justification of RFs:	From packaging waste (OECD ESD powder RMs)