

FS Section	Content field
1. Title	1.1 Non-volatile Substances for the Formulation of Cementitious Construction Chemical Products and Tile Adhesives
	1.2 FEICA / EFCC SPERC 2.3a.v1
2. Scope	2.1 Substance/Product Domain
	Substance types / functions / properties included or excluded: Includes all substances which do not evaporate to a significant extent during formulation of the construction chemical. Non-volatile ingredients are defined by a boiling point threshold of >250°C.
	Additional specification of product types covered: none
	Inclusion of sub-SPERCs: n
	2.2 Process domain
	Description of activities/processes: Storing, mixing, packaging, filling of substances (as part of preparations) and equipment cleaning, maintenance and associated laboratory activities
	2.3 List of applicable Use Descriptors
	LCS: F
	SU: 0
PC: 1, 9b, 0	
3. Operational conditions	3.1 Conditions of use
	Location of use: indoor
	Water contact during use: n
	Connected to a standard municipal biological STP: y
	Rigorously contained system with minimisation of release to the environment: n
	Further operational conditions impacting on releases to the environment.
	<ul style="list-style-type: none"> <li>Measures to achieve efficient raw material use (e.g. water re-use, recovery of substances from waste etc.): The process is arranged to maximise the efficiency of use of input raw materials, through the highest conversion into formulated products. The manufacture of construction chemicals is a multi-stage batch process. Typical measures may include e.g. <ul style="list-style-type: none"> <li>- Closed batch systems and / or</li> <li>- Semi-closed transfer system and/or</li> <li>- Reduced number of transfer and cleaning operations through e.g. dedicated storage tanks for raw materials, premixes and final products</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>General good practice: Trained staff, spill protection including waste reuse</li> </ul>
	<ul style="list-style-type: none"> <li>Measures to achieve dust reduction to air: (see RMM for air)</li> </ul>
	3.2 Waste Handling and Disposal
Waste Handling and Disposal: <ul style="list-style-type: none"> <li>Equipment is dry cleaned (sweeping, vacuum cleaning, etc.)</li> <li>Solid waste is recovered in production wherever possible</li> </ul>	
4. Obligatory RMMs onsite	RMM limiting release to air: Air extraction systems with dust filters during transfer and formulation of powder raw materials and products (e.g. cyclones, fabric filter, wet scrubber, electrostatic precipitators (ESP)).
	RMM Efficiency (air): 99%
	Reference for RMM Efficiency (air): n/a
	RMM limiting release to water: none
	RMM Efficiency (water): n/a
	Reference for RMM Efficiency (water): n/a
	RMM limiting release to soil: none
	RMM Efficiency (soil): n/a
Reference for RMM Efficiency (soil): n/a	

FS Section	Content field
5. Exposure Assessment Input	5.1 Substance use rate
	Amount of substance use per day: The indicative worst case substance use rate (MSPERC) for several ingredient types and guidance for refinement can be found in background documentation.
	Fraction of EU tonnage used in region: n/a
	Fraction of Regional tonnage used locally: n/a
	Justification / information source: EFCC expert assessment
	5.2 Days emitting
	Number of emission days per year: 300
	Justification / information source: EFCC expert assessment
	5.3 Release factors
	sub-SPERC identifier: n/a
	ERC: 2
	sub-SPERC applicability: n/a
	5.3.1 Release Factor – air
	Numeric value / percent of input amount (Air): 0.005%
	Justification of RFs (Air): see background document
	5.3.2 Release Factor – water
	Numeric value / percent of input amount (Water): 0%
	Justification of RFs (Water): see background document
	5.3.3 Release Factor – soil
	Numeric value / percent of input amount (Soil): 0%
Justification of RFs (Soil): see background document	
5.3.4 Release Factor – waste	
Percent of input amount disposed as waste: 0-1%	
Justification of RFs: see background document	
<b>References to SPERC Background Document <sup>1</sup></b>	
	FEICA / EFCC (2017). Specific Environmental Release Categories (SPERCs) for the formulation of adhesives, sealants and construction chemical products

<sup>1</sup> The objective of this factsheet is to summarize the SPERC key facts provided in the corresponding SPERC background documents. It gives an overview of the SPERC essentials for the chemical safety assessment. A SPERC background document is a reference document, which provides the description of the emission situation(s) for a use specified by an industrial sector, the justification and applicability domain of the environmental release factors, and the references/information sources/methods used in the derivation of the release factors.