



**Environmental criteria for sustainable public
procurement of**

Preservation Works

Version 30 March 2017

1. Scope/definition

The product group Preservation Works includes all activities in the Civil Engineering sector to protect wood, steel and concrete surfaces from external influences, or to decorate them by application of a preservation system including any necessary pre-treatment of the base.

Preservation Works mainly apply to the completion, management and maintenance of civil engineering constructions such as bridges, locks, viaducts, hydraulic engineering constructions and pumping stations, ships and other systems.

Criteria for street furniture and for buildings are included in separate documents.

The following products (with their corresponding CPV codes) are part of this product group. This list of products is not intended to be exhaustive.

Products	CPV code
Bridge renewal construction work	45221119-9
Painting and protective-coating work of structures	45442120-4
Application work of anti-corrosion coatings	45442200-9
Heat-galvanising	45442210-2
Surface-protection work	45442300-0
Street-lighting maintenance services	50232100-1
Traffic-signal maintenance services	50232200-2

This document describes the environmental criteria. Information about the other elements of sustainable public procurement, such as social conditions and social return, may be found on the PIANOo website, on the specific product group page: <https://www.pianoo.nl/document/10829/productgroep-conserveringswerken>.

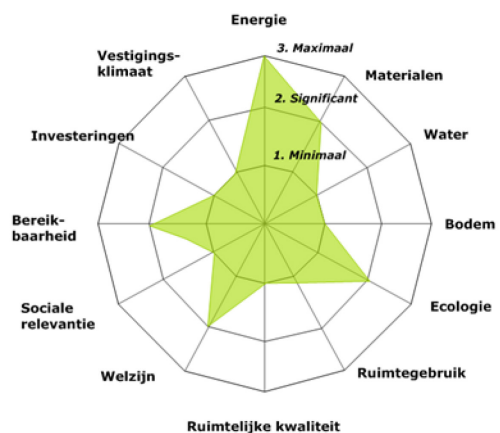
2. Criteria documents and approach to sustainable groundwork, road and hydraulic engineering

The core of the Sustainable Groundwork, Road and Hydraulic Engineering Approach is to allow sustainability aspects to be a consideration from an early planning stage on, with a focus on the whole life cycle of the infrastructure or object(s) to be built. This is the approach that facilitates the biggest gains in sustainability, and it allows a good and broad-based consideration of People, Planet and Profit to be made in every project (see also <http://duurzaamgww.nl>).

The AmbitionWeb has a key role in the Sustainable Groundwork, Road and Hydraulic Engineering Approach. It helps clarify ambitions at an early stage of a project, so they can then be maintained throughout the entire project process, from start to finish. For more information about the Sustainable Groundwork, Road and Hydraulic Engineering Approach and AmbitionWeb, see <http://www.duurzaamgww.nl/ambitieweb>.

The AmbitionWeb revolves around a number of sustainability themes, each with three ambition levels:

1. insight into the biggest impactors and flows for the theme in question, with the achievement of a minimum level, “state of the art”;
2. drafting specific reduction targets and achieving a significant improvement on the theme in question;
3. adding value, instead of just making “less bad”. Not only is the impact on people/planet/profit zero, but a positive contribution is made.



Part of level 1 is meeting the suitability requirements, minimum requirements and contract provisions of the Sustainable Procurement criteria documents. The award criteria may be used to make a contribution to levels 2 and 3.

The following table presents the themes, based on the classification used in the criteria documents, on which the buyer can actually have an impact by using the requirements and criteria in this criteria document. It should be noted that a slightly different classification is used in the AmbitionWeb.

Below is a list of the requirements and criteria broken down by the individual themes. The criteria documents identify a total of five themes (the corresponding theme from the AmbitionWeb is shown in brackets):

- energy and climate (AmbitionWeb: “energy”);
- supplies and raw materials (AmbitionWeb: “supplies”);
- water and soil (AmbitionWeb: “water” and “soil”);
- living environment (AmbitionWeb: “welfare”);
- nature and space (AmbitionWeb: “ecology”),

Themes	Level 1 AmbitionWeb Selection criteria (SC) Technical specifications (ME) Contract provisions (CB)	Level 2 Ambition Web Award criteria (GC)
<i>Supplies and Raw materials</i>	ME1. Application of low-solvent preservation systems ME2. Prevention of products with lead or chromate-containing pigments ME3. Processing/removal of resulting waste CB1. Management and maintenance plan	
<i>Water and Soil</i>	ME2. Prevention of products with lead or chromate-containing pigments ME3. Processing/removal of waste arising	

3. Assignment of criteria to project phases

The criteria in this document pertain to the initiative behind and the design and completion of new construction and reconstruction of works, and the management, maintenance and demolition of existing works. In the following table, the criteria are assigned to the individual phases to which they apply.

Criterion	Area of application	New works/existing works	
		Initiative, design	Completion
Technical specifications			
1. Application of low-solvent preservation systems		-	x
2. Prevention of products with lead or chromate-containing pigments		x	x
3. Processing/removal of resulting waste		-	x

Contract provisions		
1. Management and maintenance plan	-	x

x = include in this phase

- = do not include in this phase

o = optional

In the "procurement" of Preservation Works, in the design phase it is generally not possible to comply merely by including the criteria for Preservation Works. A specification is thus included in the product group Civil Constructions with respect to design according to the sustainability principles in ISO 12944.

Mobile vehicles

The environmental criteria for Sustainable Public Procurement of Mobile Equipment contracting apply to any mobile vehicles used.

4. Selection criteria

Not defined for this product group.

5. Technical specifications

No.	Technical specifications (ME)																																																																						
ME1	<p><i>(For composite preservation systems)</i></p> <p>Application of low-solvent preservation systems The preservation system must be made up of preservation products of which the volatile organic compound (VOC) content does not exceed the limit values outlined below per litre of preservation product.</p> <p>Preservation system is defined as: the composition of the preservation products to be used in the preservation contract and the application of these in the preservation works.</p> <p>Maximum threshold values for VOC content of paints and varnishes:</p> <table border="1"> <thead> <tr> <th></th> <th>Product subcategory</th> <th>Type</th> <th>g/l (*)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">a</td> <td rowspan="2">Matte coatings for walls and ceilings (gloss ≤ 25°-60°)</td> <td>WG</td> <td>30</td> </tr> <tr> <td>SG</td> <td>30</td> </tr> <tr> <td rowspan="2">b</td> <td rowspan="2">Glossy coatings for walls and ceilings (gloss > 25°-60°)</td> <td>WG</td> <td>100</td> </tr> <tr> <td>SG</td> <td>100</td> </tr> <tr> <td rowspan="2">c</td> <td rowspan="2">Exterior walls, mineral surface</td> <td>WG</td> <td>40</td> </tr> <tr> <td>SG</td> <td>430</td> </tr> <tr> <td rowspan="2">d</td> <td rowspan="2">Wood and metal paints for indoor and outdoor decoration and for interior and exterior wall cladding</td> <td>WG</td> <td>130</td> </tr> <tr> <td>SG</td> <td>300</td> </tr> <tr> <td rowspan="2">e</td> <td rowspan="2">Varnishes and wood stains for indoor and outdoor woodwork, including sealing wood stains</td> <td>WG</td> <td>130</td> </tr> <tr> <td>SG</td> <td>400</td> </tr> <tr> <td rowspan="2">f</td> <td rowspan="2">Wood stains with minimum layer thickness for interior and exterior</td> <td>WG</td> <td>130</td> </tr> <tr> <td>SG</td> <td>700</td> </tr> <tr> <td rowspan="2">g</td> <td rowspan="2">Primers</td> <td>WG</td> <td>30</td> </tr> <tr> <td>SG</td> <td>350</td> </tr> <tr> <td rowspan="2">h</td> <td rowspan="2">Binding primers</td> <td>WG</td> <td>30</td> </tr> <tr> <td>SG</td> <td>750</td> </tr> <tr> <td rowspan="2">i</td> <td rowspan="2">High-performance single-component coatings</td> <td>WG</td> <td>140</td> </tr> <tr> <td>SG</td> <td>500</td> </tr> <tr> <td rowspan="2">j</td> <td rowspan="2">High-performance two-component coatings for specific end use (e.g. floors)</td> <td>WG</td> <td>140</td> </tr> <tr> <td>SG</td> <td>500</td> </tr> <tr> <td rowspan="2">k</td> <td rowspan="2">Multicolour coatings</td> <td>WG</td> <td>100</td> </tr> <tr> <td>SG</td> <td>100</td> </tr> </tbody> </table>		Product subcategory	Type	g/l (*)	a	Matte coatings for walls and ceilings (gloss ≤ 25°-60°)	WG	30	SG	30	b	Glossy coatings for walls and ceilings (gloss > 25°-60°)	WG	100	SG	100	c	Exterior walls, mineral surface	WG	40	SG	430	d	Wood and metal paints for indoor and outdoor decoration and for interior and exterior wall cladding	WG	130	SG	300	e	Varnishes and wood stains for indoor and outdoor woodwork, including sealing wood stains	WG	130	SG	400	f	Wood stains with minimum layer thickness for interior and exterior	WG	130	SG	700	g	Primers	WG	30	SG	350	h	Binding primers	WG	30	SG	750	i	High-performance single-component coatings	WG	140	SG	500	j	High-performance two-component coatings for specific end use (e.g. floors)	WG	140	SG	500	k	Multicolour coatings	WG	100	SG	100
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ME2	<p>Prevention of products with lead or chromate-containing pigments No preservation products to be applied may contain lead or chromate-containing pigments.</p> <p><i>Verification</i> The tenderer may be asked to submit product data and product sheets demonstrating compliance with the requirements above.</p>											
ME3	<p>Processing/removal of waste arising The different types of waste arising during the activities must be stored and transported away separately. On the site, provisions must be made for the separate storage of waste substances.</p> <p>Protective layers with tar content must be removed in accordance with operative regulations and transported from the work site to a thermal processing installation accredited by the competent authority.</p> <p><i>Verification</i> The tenderer may be asked to provide receipts or a statement from the waste processing company.</p>											

6. Award criteria

Not defined for this product group.

7. Contract provisions

No.	Contract provisions (CB)
CB1	<p>Management and maintenance plan During the handover of the preservation work, a management and maintenance plan must be supplied, in which the extent of the inspection and maintenance measures with respect to the preservation and an estimate of the costs associated with these measures for a certain period (for example 25 years) are included.</p> <p>The plan must include at least the following sections:</p> <ul style="list-style-type: none"> • description of the materials used and their quantitative details; • description of the inspection intervals to be observed, with associated instructions (at least a description of inspection points, methods, estimated number of person-hours); • description of the maintenance intervals to be observed, with associated instructions (at least a description of maintenance activities, necessary materials and estimated number of person-hours); • a list of the agreed guarantee periods for the various parts. <p>Depending on the contract, some or all of this plan may also be completed by the contracting authority itself.</p>

	For model contract texts, see the documents drafted for the PSI Construction Project "Professionalisation of Steel Preservation" (see www.OGOS.nu).
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