



**Environmental criteria for sustainable public
procurement of**

Preservation Works

Version 7 May 2015

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 pretreatment 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.

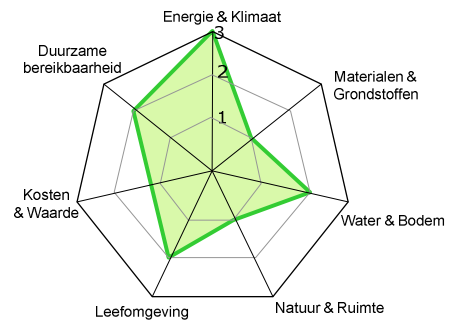
The following products (with their corresponding CPV codes) are part of this product group. This list of products is not intended to be exhaustive.

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

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.

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. For more information about the Sustainable Groundwork, Road and Hydraulic Engineering Approach and AmbitionWeb, see <http://duurzaamqww.nl/>.



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.
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 level 2.

Below is a list of the requirements and criteria broken down by the individual themes. The criteria documents identify a total of five themes:

- energy and climate
- supplies and raw materials

- water and soil
- living environment
- nature and space

The following table presents the themes on which the buyer can actually have an impact by using the requirements and criteria in this criteria document.

Themes	Level 1 AmbitionWeb Selection criteria (SC) Technical specifications (ME) Contract provisions (CB)	Level 2 Ambition Web Award criteria (AC)
Supplies and Raw materials	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	
Water and Soil	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 both 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.

Area of application	New works/existing works	
	Design	Completion
Criterion		
Technical specifications		
1.Application of low-solvent preservation systems	-	x
2.Prevention of products with lead or chromate-containing pigments	-	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.

4. Selection criteria

Not defined for this product group.

5. Technical specifications

No.	Technical specifications (ME)																																																				
ME1	<p data-bbox="320 501 727 533"><i>(For composite preservation systems)</i></p> <p data-bbox="320 555 906 586">Application of low-solvent preservation systems</p> <p data-bbox="320 586 1412 667">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 data-bbox="320 696 1412 750">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 data-bbox="320 779 1050 810">Maximum threshold values for VOC content of paints and varnishes:</p> <table border="1" data-bbox="320 831 1198 1585"> <thead> <tr> <th data-bbox="320 831 352 862"></th> <th data-bbox="352 831 979 862">Product subcategory</th> <th data-bbox="979 831 1102 862">Type</th> <th data-bbox="1102 831 1198 862">g/l (*)</th> </tr> </thead> <tbody> <tr> <td data-bbox="320 862 352 920">a</td> <td data-bbox="352 862 979 920">Matte coatings for walls and ceilings (gloss \leq 25°-60°)</td> <td data-bbox="979 862 1102 920">WG SG</td> <td data-bbox="1102 862 1198 920">30 30</td> </tr> <tr> <td data-bbox="320 920 352 978">b</td> <td data-bbox="352 920 979 978">Glossy coatings for walls and ceilings (gloss > 25°-60°)</td> <td data-bbox="979 920 1102 978">WG SG</td> <td data-bbox="1102 920 1198 978">100 100</td> </tr> <tr> <td data-bbox="320 978 352 1037">c</td> <td data-bbox="352 978 979 1037">Exterior walls, mineral surface</td> <td data-bbox="979 978 1102 1037">WG SG</td> <td data-bbox="1102 978 1198 1037">40 430</td> </tr> <tr> <td data-bbox="320 1037 352 1126">d</td> <td data-bbox="352 1037 979 1126">Wood and metal paints for indoor and outdoor decoration and for interior and exterior wall cladding</td> <td data-bbox="979 1037 1102 1126">WG SG</td> <td data-bbox="1102 1037 1198 1126">130 300</td> </tr> <tr> <td data-bbox="320 1126 352 1184">e</td> <td data-bbox="352 1126 979 1184">Varnishes and wood stains for indoor and outdoor woodwork, including sealing wood stains</td> <td data-bbox="979 1126 1102 1184">WG SG</td> <td data-bbox="1102 1126 1198 1184">130 400</td> </tr> <tr> <td data-bbox="320 1184 352 1243">f</td> <td data-bbox="352 1184 979 1243">Wood stains with minimum layer thickness for interior and exterior</td> <td data-bbox="979 1184 1102 1243">WG SG</td> <td data-bbox="1102 1184 1198 1243">130 700</td> </tr> <tr> <td data-bbox="320 1243 352 1301">g</td> <td data-bbox="352 1243 979 1301">Primers</td> <td data-bbox="979 1243 1102 1301">WG SG</td> <td data-bbox="1102 1243 1198 1301">30 350</td> </tr> <tr> <td data-bbox="320 1301 352 1359">h</td> <td data-bbox="352 1301 979 1359">Binding primers</td> <td data-bbox="979 1301 1102 1359">WG SG</td> <td data-bbox="1102 1301 1198 1359">30 750</td> </tr> <tr> <td data-bbox="320 1359 352 1417">i</td> <td data-bbox="352 1359 979 1417">High-performance 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limits indicated in the table are taken from the Products Directive 2004/42/EG.</p> <p data-bbox="320 1747 986 1778">For further information, the purchaser may consult ISO 12944.</p> <p data-bbox="320 1778 1412 1832">The purchaser is advised to consult the PSI Construction Project "Professionalisation of Metal Preservation" when outsourcing preservation work (see http://www.ogos.nu/main).</p> <p data-bbox="320 1856 443 1888"><i>Verification</i></p> <p data-bbox="320 1888 1412 1942">The tenderer may be asked to submit product data and product sheets demonstrating compliance with the requirements above.</p>		Product subcategory	Type	g/l (*)	a	Matte coatings for walls and ceilings (gloss \leq 25°-60°)	WG SG	30 30	b	Glossy coatings for walls and ceilings (gloss > 25°-60°)	WG SG	100 100	c	Exterior walls, mineral surface	WG SG	40 430	d	Wood and metal paints for indoor and outdoor decoration and for interior and exterior wall cladding	WG SG	130 300	e	Varnishes and wood stains for indoor and 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ME2	<p data-bbox="320 1933 1129 1964">Prevention of products with lead or chromate-containing pigments</p> <p data-bbox="320 1964 1289 1995">No preservation products to be applied may contain lead or chromate-containing pigments.</p> <p data-bbox="320 2020 443 2051"><i>Verification</i></p>																																																				

	The tenderer may be asked to submit product data and product sheets demonstrating compliance with the requirements above.
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> <p>For model contract texts, see the documents drafted for the PSI Construction Project "Professionalisation of Metal Preservation" (see www.OGOS.nu).</p>