



Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

TAPECRETE Primer and Thin-Coat Mortar





Owner of the declaration:

Marlon Tørmørtel A/S

Product

TAPECRETE Primer and Thin-Coat Mortar

Declared unit:

1 kg

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core

PCR

NPCR 009:2021 Part B for Technical - Chemical products for building and construction industry

Program operator:

The Norwegian EPD Foundation

Declaration number:

NEPD-6661-5913-EN

Registration number:NEPD-6661-5913-EN

Issue date: 24.05.2024

Valid to: 24.05.2029

EPD software:

LCAno EPD generator ID: 366859

The Norwegian EPD Foundation



General information

Product

TAPECRETE Primer and Thin-Coat Mortar

Program operator:

The Norwegian EPD Foundation
Post Box 5250 Majorstuen, 0303 Oslo, Norway

Phone: +47 977 22 020 web: www.epd-norge.no

Declaration number:

NEPD-6661-5913-EN

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR NPCR 009:2021 Part B for Technical - Chemical products for building and construction industry

Statement of liability:

The owner of the declaration shall be liable for the underlying information and evidence. EPD Norway shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Declared unit:

1 kg TAPECRETE Primer and Thin-Coat Mortar

Declared unit with option:

A1-A3,A4,A5,C1,C2,C3,C4,D

Functional unit:

No functional unit declared

General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD-Norway's guidelines for verification and approval requiring that tools are i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPD-Norway, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools

Verification of EPD tool:

Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPDNorway's procedures and guidelines for verification and approval of EPD tools. NEPDT73

Third party verifier:

Linda Høibye, Life Cycle Assessment Consulting

(no signature required)

Owner of the declaration:

Marlon Tørmørtel A/S Contact person: Bente Vesterager Phone: +45 7575 4300 e-mail: marlon@marlon.dk

Manufacturer:

Marlon Tørmørtel A/S

Place of production:

Marlon Tørmørtel A/S Virkelyst 20 8740 Brædstrup, Denmark

Management system:

ISO 9001

Organisation no:

DK13254079

Issue date:

24.05.2024

Valid to:

24.05.2029

Year of study:

2023

Comparability:

EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.

Development and verification of EPD:

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD Norway.

Developer of EPD: Bente Vesterager

Reviewer of company-specific input data and EPD: Maria Hosbjerg Christensen

Approved:

Håkon Hauan Managing Director of EPD-Norway



Product

Product description:

TAPECRETE Primer and Thin-Coat Mortar is a 2-component, acrylic-enhanced cement-based primer and thin-coat mortar with a max. grain size of 0.5 mm, that consists of cement, graduated sand, and additives and comes as a pre-mixed dry mortar. The dry mortar must be added TAPECRETE P111 to archive the below declared poperties. This EPD only covers TAPECRETE Primer and Thin-Coat Mortarl, that mixed with P111, is waterproof and resistant to chlorine, corrosion, carbonization, and UV rays. See https://marlon.dk/catalog/product/view/id/124/s/tapecrete-p111-alrylvaeske-100054104/ for more information.

Product specification

EPD covers:

Item no 1000549 TAPECRETE Primer and Thin-Coat Mortar

| Materials | Value | Unit |
|--------------------|-------|------|
| Fillers/Aggregates | 40-60 | % |
| Binders | 40-60 | % |
| Additives | 0-2 | % |
| Packaging | 2-3 | % |

Technical data:

TAPECRETE Primer and Thin-Coat Mortar, is produced og declared according to DS/EN 1504-2, 1504-3, 1504-7.

Compressive strength, 28 days >= 45 MPa Adhesive bond > 2,0 MPa Overhead application >= 2,0 MPa Abrasion resistance < 3000 mg

See all declared properties at: https://marlon.dk/.

Market:

Denmark

Reference service life, product

The reference service life of the product is similar to the service life of the building.

Reference service life, building

> 50 years.

LCA: Calculation rules

Declared unit:

1 kg TAPECRETE Primer and Thin-Coat Mortar

Cut-off criteria:

All major raw materials and all the essential energy is included. The production processes for raw materials and energy flows with very small amounts (less than 1%) are not included. These cut-off criteria do not apply for hazardous materials and substances.

Allocation:

The allocation is made in accordance with the provisions of EN 15804. Incoming energy and water and waste production in-house is allocated equally among all products through mass allocation. Effects of primary production of recycled materials is allocated to the main product in which the material was used. The recycling process and transportation of the material is allocated to this analysis.

Data quality:

Specific data for the product composition are provided by the manufacturer. The data represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on EPDs according to EN 15804 and different LCA databases. The data quality of the raw materials in A1 is presented in the table below.

| Materials | Source | Data quality | Year |
|-----------------------|------------------------|--------------|------|
| Cement | ecoinvent 3.6 | Database | 2019 |
| Packaging - Cardboard | Modified ecoinvent 3.6 | Database | 2019 |
| Packaging - Pallet | Modified ecoinvent 3.6 | Database | 2019 |
| Packaging - Plastic | ecoinvent 3.6 | Database | 2019 |
| Quartz sand | ecoinvent 3.6 | Database | 2019 |

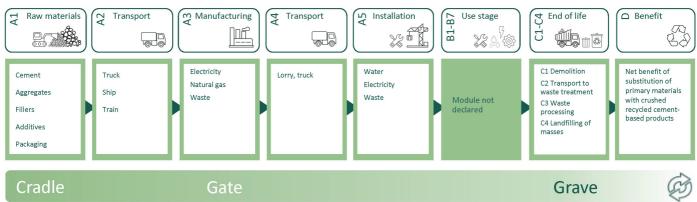


System boundaries (X=included, MND=module not declared, MNR=module not relevant)

| | Pro | oduct stag | je | | uction on stage | Use stage | | | | End of life stage | | | | Beyond the system boundaries | | | |
|-----|-----------|------------|---------------|-----------|--------------------|-----------|-------------|--------|-------------|-------------------|------------------------------|--------------------------|-----------------------------------|------------------------------|---------------------|----------|--|
| Raw | materials | Transport | Manufacturing | Transport | Assembly | Use | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De- construction demolition | Transport | Waste processing | Disposal | Reuse-Recovery- Recycling-potential |
| A. | 1 | A2 | A3 | A4 | A5 | B1 | B2 | В3 | B4 | B5 | В6 | В7 | C1 | C2 | C3 | C4 | D |
| X | (| Χ | X | X | X | MND | MND | MND | MND | MND | MND | MND | X | X | X | X | X |

System boundary:

All processes from raw material extraction, to production, transport to the construction site and assembly, are included in the analysis as well as end of life stage and phases beyond the system boundary.



Additional technical information:

The product can be delivered in bulk, Big bag or plastic bags. The calculation includes data for plastic bags, as this is the most frequent used form of packaging.



LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD.

| Transport from production place to user (A4) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
|---|--|---------------|-------------------------|-------|------------------------|
| Truck, 16-32 tonnes, EURO 6 (km) - Europe | 36,7 % | 160 | 0,043 | l/tkm | 6,88 |
| Assembly (A5) | Unit | Value | | | |
| Electricity, Denmark (kWh) | kWh/DU | 0,01 | | | |
| Waste, concrete, to landfill (kg) | kg/DU | 0,02 | | | |
| Waste, packaging, corrugated board box, to average treatment (kg) - A5, inkl. 85 km transp. | kg/DU | 0,00 | | | |
| Waste, packaging, pallet, EUR wooden pallet, reusable, average treatment (kg) - A5, inkl. 85 km transp. | kg | 0,02 | | | |
| Waste, packaging, plastic film/bags (LDPE), to average treatment (kg) - A5, inkl. 85 km transp. | kg/DU | 0,00 | | | |
| Water, tap water (kg) | kg/DU | 0,00 | | | |
| De-construction demolition (C1) | Unit | Value | | | |
| Demolition of building per kg of cement-based product, C1 (kg) | kg/DU | 1,00 | | | |
| Transport to waste processing (C2) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
| Truck, 16-32 tonnes, EURO 5 (km) - Europe | 36,7 % | 50 | 0,044 | l/tkm | 2,20 |
| Waste processing (C3) | Unit | Value | | | |
| Waste treatment of cement-based product after demolition, C3 (kg) | kg | 0,90 | | | |
| Disposal (C4) | Unit | Value | | | |
| Disposal of cement-based product in landfill (kg) | kg | 0,10 | | | |
| Benefits and loads beyond the system boundaries (D) | Unit | Value | | | |
| Substitution of primary aggregates with crushed recycled cement-based products (kg) | kg | 0,90 | | | |



LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

| Enviro | invironmental impact | | | | | | | | | | | | | |
|----------|----------------------------------|------------------------|-----------|----------|----------|----------|----------|----------|----------|-----------|--|--|--|--|
| | Indicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D | | | | |
| | GWP-total | kg CO ₂ -eq | 4,33E-01 | 2,68E-02 | 3,77E-02 | 4,00E-03 | 8,54E-03 | 6,48E-04 | 8,22E-04 | -2,10E-03 | | | | |
| | GWP-fossil | kg CO ₂ -eq | 4,67E-01 | 2,68E-02 | 3,04E-03 | 4,00E-03 | 8,53E-03 | 6,39E-04 | 8,20E-04 | -2,06E-03 | | | | |
| | GWP-biogenic | kg CO ₂ -eq | -3,42E-02 | 1,11E-05 | 3,46E-02 | 7,50E-07 | 3,48E-06 | 5,52E-06 | 9,58E-07 | -4,11E-05 | | | | |
| | GWP-luluc | kg CO ₂ -eq | 9,50E-05 | 9,52E-06 | 3,69E-06 | 3,15E-07 | 2,98E-06 | 8,84E-07 | 2,02E-07 | -1,39E-06 | | | | |
| ٨ | ODP | kg CFC11 -eq | 1,98E-08 | 6,06E-09 | 2,00E-10 | 8,64E-10 | 1,95E-09 | 1,26E-10 | 3,11E-10 | -3,75E-10 | | | | |
| Œ | АР | mol H+ -eq | 1,34E-03 | 7,69E-05 | 1,25E-05 | 4,19E-05 | 3,49E-05 | 5,17E-06 | 7,30E-06 | -1,85E-05 | | | | |
| - | EP-FreshWater | kg P -eq | 5,83E-06 | 2,14E-07 | 2,20E-07 | 1,46E-08 | 6,70E-08 | 4,04E-08 | 9,30E-09 | -5,48E-08 | | | | |
| | EP-Marine | kg N -eq | 3,89E-04 | 1,52E-05 | 2,37E-06 | 1,85E-05 | 1,03E-05 | 1,52E-06 | 2,71E-06 | -6,43E-06 | | | | |
| - | EP-Terrestial | mol N -eq | 4,49E-03 | 1,70E-04 | 3,19E-05 | 2,00E-04 | 1,14E-04 | 1,75E-05 | 2,99E-05 | -7,56E-05 | | | | |
| | POCP | kg NMVOC -eq | 1,16E-03 | 6,52E-05 | 7,40E-06 | 5,57E-05 | 3,50E-05 | 4,68E-06 | 8,56E-06 | -2,00E-05 | | | | |
| | ADP-minerals&metals ¹ | kg Sb-eq | 1,27E-06 | 7,39E-07 | 3,26E-08 | 6,14E-09 | 2,31E-07 | 8,11E-09 | 7,39E-09 | -1,83E-07 | | | | |
| A | ADP-fossil ¹ | MJ | 2,20E+00 | 4,04E-01 | 4,17E-02 | 5,51E-02 | 1,29E-01 | 1,98E-02 | 2,26E-02 | -3,49E-02 | | | | |
| <u>%</u> | WDP ¹ | m ³ | 8,42E+00 | 3,91E-01 | 5,44E-01 | 1,17E-02 | 1,23E-01 | 2,19E+00 | 1,39E-01 | -1,63E+00 | | | | |

GWP-total = Global Warming Potential total; GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment: EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

Remarks to environmental impacts

[&]quot;Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"

^{*}INA Indicator Not Assessed

^{1.} The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator



| Addition | Additional environmental impact indicators | | | | | | | | | | | | |
|---------------|--|-------------------|----------|----------|----------|----------|----------|----------|----------|-----------|--|--|--|
| In | dicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D | | | |
| | PM | Disease incidence | 8,19E-09 | 1,64E-09 | 9,00E-11 | 5,07E-09 | 6,14E-10 | 8,30E-11 | 1,56E-10 | -3,95E-10 | | | |
| | IRP ² | kgBq U235 -eq | 9,64E-03 | 1,77E-03 | 2,00E-04 | 2,40E-04 | 5,62E-04 | 3,33E-04 | 1,03E-04 | -3,20E-04 | | | |
| | ETP-fw ¹ | CTUe | 3,30E+00 | 3,00E-01 | 6,60E-02 | 3,01E-02 | 9,47E-02 | 1,41E-02 | 1,23E-02 | -3,59E-02 | | | |
| 48.* ***** | HTP-c ¹ | CTUh | 6,80E-11 | 0,00E+00 | 1,00E-12 | 1,00E-12 | 0,00E+00 | 1,00E-12 | 1,00E-12 | -2,00E-12 | | | |
| & D | HTP-nc ¹ | CTUh | 3,73E-09 | 3,28E-10 | 4,60E-11 | 2,80E-11 | 1,02E-10 | 1,30E-11 | 9,00E-12 | -4,40E-11 | | | |
| | SQP ¹ | dimensionless | 1,64E+00 | 2,83E-01 | 6,97E-02 | 6,69E-03 | 8,87E-02 | 1,12E-02 | 8,69E-02 | 7,91E-02 | | | |

PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Potential Soil Quality Index (dimensionless)

[&]quot;Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

^{1.} The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the

^{2.} This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.



| Resource use | | | | | | | | | | |
|--------------|----------|-------|----------|----------|-----------|----------|----------|----------|----------|-----------|
| | ndicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| | PERE | МЈ | 2,67E-01 | 5,79E-03 | 2,96E-02 | 3,00E-04 | 1,82E-03 | 1,02E-02 | 8,08E-04 | -8,16E-03 |
| | PERM | МЈ | 3,16E-01 | 0,00E+00 | -3,16E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| ್ಷಕ್ಕ | PERT | МЈ | 5,84E-01 | 5,79E-03 | 1,30E-02 | 3,00E-04 | 1,82E-03 | 1,02E-02 | 8,08E-04 | -8,16E-03 |
| | PENRE | МЈ | 2,18E+00 | 4,05E-01 | 4,17E-02 | 5,51E-02 | 1,29E-01 | 1,99E-02 | 2,26E-02 | -3,68E-02 |
| el. | PENRM | МЈ | 3,41E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| I | PENRT | МЈ | 2,21E+00 | 4,05E-01 | 4,17E-02 | 5,51E-02 | 1,29E-01 | 1,99E-02 | 2,26E-02 | -3,68E-02 |
| | SM | kg | 2,05E-04 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| 2 | RSF | МЈ | 9,06E-03 | 2,07E-04 | 1,11E-03 | 0,00E+00 | 6,50E-05 | 0,00E+00 | 1,68E-05 | -1,67E-04 |
| | NRSF | МЈ | 2,80E-03 | 7,41E-04 | 1,86E-05 | 0,00E+00 | 2,32E-04 | 0,00E+00 | 3,62E-05 | -1,71E-04 |
| % | FW | m^3 | 1,92E-03 | 4,33E-05 | 1,13E-04 | 2,83E-06 | 1,35E-05 | 3,40E-05 | 2,78E-05 | -1,28E-03 |

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non renewable primary energy resources used as raw materials; PENRM = Use of non renewable primary energy resources; SM = Use of secondary materials; PENRM = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

[&]quot;Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed



| End of life - Was | End of life - Waste | | | | | | | | | | | | |
|-------------------|---------------------|------|----------|----------|----------|----------|----------|----------|----------|-----------|--|--|--|
| Inc | dicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D | | | |
| ā | HWD | kg | 3,82E-04 | 2,09E-05 | 4,54E-06 | 1,62E-06 | 6,56E-06 | 1,98E-06 | 0,00E+00 | -8,40E-06 | | | |
| Ū | NHWD | kg | 1,72E-02 | 1,97E-02 | 2,15E-02 | 6,52E-05 | 6,15E-03 | 6,26E-05 | 1,00E-01 | -2,55E-04 | | | |
| 3 | RWD | kg | 1,16E-05 | 2,76E-06 | 1,08E-07 | 3,82E-07 | 8,77E-07 | 2,10E-07 | 0,00E+00 | -2,76E-07 | | | |

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

| End of life - Outpu | End of life - Output flow | | | | | | | | | | | | | |
|---------------------|---------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|--|--|--|--|
| Indicat | tor | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D | | | | |
| @▷ | CRU | kg | 0,00E+00 | | | | |
| \$>> | MFR | kg | 0,00E+00 | 0,00E+00 | 5,09E-04 | 0,00E+00 | 0,00E+00 | 9,00E-01 | 0,00E+00 | 0,00E+00 | | | | |
| DF | MER | kg | 9,22E-04 | 0,00E+00 | 7,31E-06 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | | | | |
| 50 | EEE | MJ | 5,70E-04 | 0,00E+00 | 4,98E-04 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | | | | |
| DØ. | EET | MJ | 8,62E-03 | 0,00E+00 | 7,54E-03 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | | | | |

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; EET = Exported energy thermal

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

| Biogenic Carbon Content | | | | | | | | | | |
|-------------------------|---------------------|--|--|--|--|--|--|--|--|--|
| Unit | At the factory gate | | | | | | | | | |
| kg C | 4,84E-05 | | | | | | | | | |
| kg C | 9,40E-03 | | | | | | | | | |
| | kg C | | | | | | | | | |

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO2



Additional requirements

Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

| Electricity mix | Source | Amount | Unit |
|----------------------------|---------------|--------|--------------|
| Electricity, Denmark (kWh) | ecoinvent 3.6 | 338,20 | g CO2-eg/kWh |

Dangerous substances

The product contains no substances given by the REACH Candidate list.

Indoor environment

Additional Environmental Information

| Additional environmental impact indicators required in NPCR Part A for construction products | | | | | | | | | | |
|--|------------------------|----------|----------|----------|----------|----------|----------|----------|-----------|--|
| Indicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D | |
| GWPIOBC | kg CO ₂ -eq | 4,74E-01 | 2,68E-02 | 3,71E-03 | 4,00E-03 | 8,54E-03 | 1,19E-03 | 0,00E+00 | -2,20E-03 | |

GWP-IOBC: Global warming potential calculated according to the principle of instantaneous oxidation. In order to increase the transparency of biogenic carbon contribution to climate impact, the indicator GWP-IOBC is required as it declares climate impacts calculated according to the principle of instantaneous oxidation. GWP-IOBC is also referred to as GWP-GHG in context to Swedish public procurement legislation.



Bibliography

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ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines.

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NPCR 009 Part B for Technical - Chemical products for building and construction industry, Ver. 3.0, 06.10.2021, EPD Norway.

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| EGO PLATFORM | ECO Platform | web: | www.eco-platform.org |
| | ECO Portal | web: | ECO Portal |
| CRITIES | | | |