

Potential structure of the revised STS BREF (including WPC issues)

(Note: subject to the outcome of discussions on which sectors to be covered (deleted/added).)

PREFACE

SCOPE

1 GENERAL INFORMATION ON SURFACE TREATMENT USING ORGANIC SOLVENTS

2 PRINTING

- 2.1 General information on printing
- 2.2 Applied processes and techniques in printing
- 2.3 Current consumption and emission levels in printing
 - 2.3.1 The printing industry as a whole
 - 2.3.2 Heatset web offset
 - 2.3.3 Flexible package printing – flexography and gravure
 - 2.3.4 Publication gravure
- 2.4 Techniques to consider in the determination of BAT for printing
 - 2.4.1 Heatset offset printing
 - 2.4.2 Flexography and packaging gravure
 - 2.4.3 Publication gravure printing

3 MANUFACTURE OF WINDING WIRE

- 3.1 General information on the winding wire industry
- 3.2 Applied processes and techniques in winding wire manufacturing
- 3.3 Current consumption and emission levels in winding wire manufacturing
- 3.4 Techniques to consider in the determination of BAT in winding wire manufacturing

4 MANUFACTURING OF ABRASIVES

- 4.1 General information on the abrasives industry
- 4.2 Applied processes and techniques in abrasives manufacturing
- 4.3 Current consumption and emission levels in abrasives manufacturing
- 4.4 Techniques to consider in the determination of BAT for the manufacturing of abrasives

5 MANUFACTURING OF ADHESIVE TAPE

- 5.1 General information on the manufacturing of adhesive tape
- 5.2 Applied processes and techniques in adhesive tape manufacturing
- 5.3 Current consumption and emission levels adhesive tape manufacturing
- 5.4 Techniques to consider in the determination of BAT for the manufacturing of adhesive tape

6 COATING OF CARS

- 6.1 General information on the car industry
- 6.2 Applied processes and techniques in the car industry
- 6.3 Current consumption and emission levels in the car industry
- 6.4 Techniques to consider in the determination of BAT for the coating of cars

7 COATING OF VANS, TRUCKS, AND TRUCK CABS

- 7.1 General information on the coating of vans, trucks and truck cabs
- 7.2 Applied processes and techniques in the coating of vans, trucks and truck cabs
- 7.3 Current consumption and emission levels in the coating of vans, trucks and truck cabs
- 7.4 Techniques to consider in the determination of BAT for the coating of vans, trucks and truck cabs

8 COATING OF BUSES

- 8.1 General information on the coating of buses
- 8.2 Applied processes and techniques in the coating of buses
- 8.3 Current consumption and emission levels in the coating of buses
- 8.4 Techniques to consider in the determination of BAT for the coating of buses

9 COATING OF TRAINS

- 9.1 General information on the coating of trains
- 9.2 Applied processes and techniques in the coating of trains
- 9.3 Current consumption and emission levels in the coating of trains
- 9.4 Techniques to consider in the determination of BAT for the coating of trains

10 COATING OF AGRICULTURAL AND CONSTRUCTION EQUIPMENT

- 10.1 General information on the coating of agricultural and construction equipment
- 10.2 Applied processes and techniques in the coating of agricultural and construction equipment
- 10.3 Current consumption and emission levels in the coating of agricultural and construction equipment
- 10.4 Techniques to consider in the determination of BAT on the coating of agricultural and construction equipment

11 COATING OF SHIPS AND YACHTS

- 11.1 General information on the coating of ships and yachts
- 11.2 Applied processes and techniques in the coating of ships and yachts
- 11.3 Current consumption and emission levels in the coating of ships and yachts
- 11.4 Techniques to consider in the determination of BAT for the coating of ships and yachts

12 COATING OF AIRCRAFT

- 12.1 General information on the coating of aircraft
- 12.2 Applied processes and techniques in the coating of aircraft
- 12.3 Current consumption and emission levels in the coating of aircraft
- 12.4 Techniques to consider in the determination of BAT for the coating of aircraft

13 COATING OF OTHER METAL SURFACES

- 13.1 General information on the coating of other metal surfaces
- 13.2 Applied processes and techniques
- 13.3 Current consumption and emissions levels
- 13.4 Techniques to consider in the determination of BAT for serial painting of other metal surfaces

14 COIL COATING INDUSTRIES

- 14.1 General information on coil coating
- 14.2 Applied processes and techniques in coil coating
- 14.3 Current consumption and emission levels in coil coating
- 14.4 Techniques to consider in the determination of BAT for coil coating

15 COATING AND PRINTING OF METAL PACKAGING

- 15.1 General information
- 15.2 Applied processes and techniques in the coating and printing of metal packaging
- 15.3 Current consumption and emission levels in the coating and printing of metal packaging
- 15.4 Techniques to consider in the determination of BAT for the coating and printing of metal packaging

16 COATING OF PLASTIC WORKPIECES

- 16.1 General information on the coating of plastic workpieces
- 16.2 Applied processes and techniques in the coating of plastic workpieces
- 16.3 Current consumption and emission levels in the coating of plastic workpieces
- 16.4 Techniques to consider in the determination of BAT for the serial painting of plastic workpieces

17 COATING OF FURNITURE AND WOOD MATERIALS

- 17.1 General information on the coating of furniture and wood materials
- 17.2 Applied processes and techniques in the coating of furniture and wood materials
- 17.3 Current consumption and emission levels in the coating of furniture and wood materials
- 17.4 Techniques to consider in the determination of BAT for the painting of furniture and wood materials

18 WOOD PRESERVATION

- 18.1 General information on wood preservation
- 18.2 Applied processes and techniques in wood preservation
- 18.3 Current consumption and emission levels in wood preservation
 - 18.3.1 Wood preservation with water-based preservatives
 - 18.3.2 Wood preservation with solvent-based preservatives
 - 18.3.3 Wood preservation with creosote (oil-based) preservatives
- 18.4 Techniques to consider in the determination of BAT for wood preservation
 - 18.4.1 Wood preservation with water-based preservatives
 - 18.4.2 Wood preservation with solvent-based preservatives
 - 18.4.3 Wood preservation with creosote (oil-based) preservatives

19 MANUFACTURE OF MIRRORS

- 19.1 General information on the manufacture of mirrors
- 19.2 Applied processes and techniques in the manufacture of mirrors
- 19.3 Current consumption and emission levels in the manufacture of mirrors
- 19.4 Techniques to consider in the determination of BAT for the manufacture of mirrors

20 TECHNIQUES TO CONSIDER IN THE DETERMINATION OF BAT APPLICABLE IN MORE THAN ONE SECTOR

(Note: to avoid duplicating description of techniques, techniques that should be considered in the determination of BAT in several sectors are compiled under this heading)

21 BEST AVAILABLE TECHNIQUES FOR SURFACE TREATMENT USING ORGANIC SOLVENTS

Content:

- *Conclusions on what BAT are for the sector based upon the information exchange as reflected in the previous chapters.*
- *This chapter includes also sections on: Scope, General considerations, Reference conditions, Definitions and acronyms and a brief description of the techniques so that that no substantial changes are needed for its inclusion into a document suitable to be adopted pursuant to Article 13(5) of Directive 2010/75/EU and used as 'BAT conclusions' as defined in Article 3(12) of Directive 2010/75/EU.*

Scope *(Note: the scope of the BAT conclusions may slightly differ from scope of the BREF)*

General considerations

(May include information on: reference conditions for emissions to air/water, averaging periods etc.)

Definitions and acronyms

(A list of important terms and acronyms used in the BAT conclusions and their definitions)

21.1 General BAT conclusions

21.1.1 Best available techniques applicable in all sectors

21.1.2 Best available techniques applicable in all industries in the STS sectors

21.1.3 Best available techniques applicable in all industries in the WPC sectors

21.2 Best available techniques for printing

21.2.1 BAT for heatset web offset

21.2.2 BAT for flexography and packaging gravure (flexible packaging printing)

21.2.3 BAT for publication gravure

21.3 Best available techniques for winding wire manufacturing

21.4 Best available techniques for the manufacturing of abrasives

21.5 Best available techniques for the manufacturing of adhesive tape

21.6 Best available techniques for the coating of cars

21.7 Best available techniques for the coating of vans, trucks and truck cabs

21.8 Best available techniques for the coating of buses

21.9 Best available techniques for the coating of trains

21.10 Best available techniques for the coating of agricultural and construction equipment (ACE)

21.11 Best available techniques for the coating of ships and yachts

21.12 Best available techniques for the coating of aircraft

21.13 Best available techniques for the coating of other metal surfaces

21.14 Best available techniques for coil coating

21.15 Best available techniques for the coating and printing of metal packaging

21.16 Best available techniques for the coating of plastic workpieces

21.17 Best available techniques for the coating of furniture and wood materials

21.18 Best available techniques for wood preservation

21.18.1 BAT for Wood preservation with water-based preservatives

21.18.2 BAT for Wood preservation with solvent-based preservatives

21.18.3 BAT for Wood preservation with creosote (oil-based) preservatives

21.19 Best available techniques for mirror manufacturing

21.20 Description of techniques

22 EMERGING TECHNIQUES FOR SURFACE TREATMENT USING SOLVENTS

23 CONCLUDING REMARKS

REFERENCES

GLOSSARY

24 ANNEXES