



BUSINESS PLAN

CENELEC/TC 204	Secretariat	Date
	DE	2018-12-19

Please ensure this form is annexed to the TC Report to the CENELEC Technical Board if it has been prepared during a meeting, or sent to CCMC promptly after its contents have been agreed by the Committee by correspondence.

TC or SC title: Safety of electrostatic painting and finishing equipment

A Background

CLC/TC204 was founded in the 80s at the same time as CLC/TC 31/SC31-8. For further information on the background, see Business Plan of CLC/SC31-8.

The scope of CLC/TC204 comprises devices and systems for application of liquid coating materials, powder coatings and flock which are characterised by the fact that the coating materials are charged electrostatically during the atomisation process. The electrostatic charge increases the so-called transfer efficiency which is that part of the coating material actually applied on the item. In contrast to the products standardised by CLC/SC31-8, devices standardised by CLC/TC204 do not generate an explosive atmosphere due to the specific characteristics of the coating materials. Therefore, the standard projects support the protective measures of Directive 2006/42/EC, but not those of ATEX Directive 2014/34/EU.

Following Standards of CLC/TC204 are currently published:

- EN 50059:2018 (pr=58819)
 Electrostatic hand-held spraying equipment Safety requirements Hand-held spraying equipment for non-ignitable coating materials
- EN 50348:2010/corrigendum May 2010 (pr=25813)
 Stationary electrostatic application equipment for non-ignitable liquid coating material Safety requirements

B Business Environment

B.1 General

Up to now the standardisation has been limited to Europe. Since several years the European group has discussed the option to raise the standards to the international level. But the obvious advantages of a worldwide standardisation are opposed by concern over the quality and the continuity of the normative requirements.

Products manufactured in compliance with CLC/TC204 are used in many industrial companies and handicraft enterprises applying varnishes or other coating materials by atomisation. The size of these enterprises ranges from global companies, e.g. automotive and aircraft industry, to small and medium-sized enterprises (SMEs), e.g. contract spray painters.

Risk management has taken on a greater emphasis in the business environment and is an underlying principle in many OHS regulatory requirements. Insofar is the work of CLC/TC 204 an essential element of EU Directives as 2006/42/EC.

B.2 Market demand

The market demand of the CLC/TC 204 standards has been increasing in recent years. They are used by designers, manufacturers, installers, maintenance and repair personnel, equipment users and the authorities. The standards published by CLC/TC 204 are now widely accepted by the different players. They form the basis for legislated requirements of the legislative framework of the EU in this field and are applied by manufacturers to issue their EC Declaration of Conformity.

B.3 Trends in technology

The technological development of devices standardised by CLC/TC 204 are especially linked with the developments in the field of coating materials. Any changes in the composition of the mixture, e.g. due to increased use of liquid coating materials, sometimes require new safety requirements because of differing electrical characteristics.

By including especially the manufacturers of these devices it is ensured that such developments are reflected very early in the corresponding product standards.

B.4 Market trends

The market trend for demand for the standards of CLC/TC 204 is expected to continue to increase.

B.5 Ecological environment

Products manufactured in compliance with the standards of CLC/TC204 significantly contribute to the protection of the environment and of the resources. Electrostatically supported coating processes are characterised by a considerably higher transfer efficiency, that is, as intended, a much higher amount of the materials used is applied to the item. This both saves resources and protects the environment by emitting less organic solvent vapours and by reducing the amount of filtered coating materials to be recycled.

B.6 Involvement of societal stakeholders

According to the CLC Rules for Standardization, CLC/TC 204 is proactive to cover the interests of all stake-holders in order to achieve a wide acceptance of the standards e.g. by regulators, unions and insurance companies. This is an essential goal for the ambition of CLC/TC204 to provide the most accepted standards for machinery safety within the EU.

B.7 Involvement of SMEs

Many of the manufacturers of the products covered by the standards are SMEs. These enterprises are adequately represented in the committee, and are thus involved in its activities in an intense and continuous way. In the past often these manufacturers delivered new ideas for the standardisation work.

On the other hand the products manufactured in compliance with the standards of CLC/TC204 are often used by handicraft enterprises. The national mirror committees, especially the German committee DKE K239, regularly gets a feedback from the users.

C System approach aspects

CLC/SC 31-8 prepares standards for similar products, but the devices covered by the standards of SC31-8 have an ignition protection since the processed coating materials generate an explosive atmosphere. Therefore, the products of CLC/TC 204 are a sub-group of the products covered by CLC/SC 31-8.

When considering the systems, the standardisation projects of CEN/TC271 "Surface Treatment Equipment-Safety" can be linked closely to that of CLC/TC 204. This committee standardises open and open-fronted spray booths, and determines requirements for working areas in which products of CLC/TC204 are used. The compatibility of the standards of CLC/TC 204 and those of CEN/TC271, as well as the actuality of the standards is ensured because several members are working in both committees (especially convenor, secretaries).

D Objectives and strategies (3 to 5 years)

- Objective 1: Revision of the standards of CLC/TC 204 for adaption to standard generation of CEN/TC271.
- Objective 2: Transfer of important standards of CLC/TC 204 to IEC level. The decision depends on strategic considerations and conditions of the market environment, and thus has to be taken as the case arises. The TC has regular contact to standardisation organisations in North America.

E Action plan

Objective 1:

- a) Corrigendum of EN 50059 "Electrostatic hand-held spraying equipment Safety requirements Hand-held spraying equipment for non-ignitable coating materials" (target date end of 2019)
- b) Revision of EN 50348 "Stationary electrostatic application equipment for non-ignitable liquid coating material Safety requirements" (target date end of 2022)

Objective 2:

a) Decisions as the case arises (see above)

F Useful links to CENELEC web site