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**PTV 883**

**BENOR**



**TECHNICAL REQUIREMENTS**

**TECHNICAL REQUIREMENTS  
FOR  
PAINTS FOR ROAD MARKING**

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## FOREWORD

This document contains the technical requirements for paints for road marking. The requirements included in these PTV respond to needs established by the various interested parties according to local customs.

The customer and/or user can require conformity of paints for road markings to the requirements of the PTV 883 to be demonstrated by way of a lot control.

The conformity of paints for road marking can also be certified under the voluntary BENOR mark. With the BENOR mark, the supplier has to declare the performance of paints for all the characteristics relevant to guaranteeing the application and limit values imposed by this PTV 883.

BENOR certification is based on full product certification in accordance with EN ISO/IEC 17067.

# 1 INTRODUCTION

## 1.1 TERMINOLOGY

### 1.1.1 Definitions

Coefficient of retroreflected luminance, $R_L$	Quotient of the luminance $L$ of a field of the road marking in a direction of observation by the illuminance $E_{\perp}$ at the field perpendicular to the direction of the incident light (definition of EN 1436, unit: $\text{mcd m}^{-2} \text{lx}^{-1}$ ).
Drop on materials	The antiskid aggregates, the drop-on glass-beads and the mixtures of glass beads and antiskid aggregates have to meet the requirements of the standard EN 1423 and PTV 881.
Luminance coefficient under diffuse illumination, $Q_d$	Quotient of the luminance of a field of the road marking in a given direction by the illuminance on the field (unit: $\text{mcd} \cdot \text{m}^{-2} \cdot \text{lx}^{-1}$ ), definition of EN 1436.
Paint	Liquid product which contains binders, pigments, fillers, solvents and additives, which can be supplied in single or multi-component systems and which, when applied, produces a cohesive film by the process of solvent/water evaporation or the process of solvent/water evaporation and a chemical reaction or coalescence process (in the case of water base product).
Producer	The party responsible for producing the paints for road marking.
Product	The result of an industrial activity or process. Meant by this in the context of these technical requirements is paints for road marking. It is the collective term for all product articles and product types to which these PTV apply.
Product article	Set of units of a product with the same characteristics and performance that are produced in a specific manner and comply with the technical file.
Production unit	Technical facility/facilities tied to a geographical location used by a producer and in which one or more products are made.
Reference document	Document specifying the technical characteristics with which the materials, equipment, raw materials, production process and/or the product must comply (a standard, specification or any other technical specification).
Removability	The state of being removable entirely without damage to the road surface and without leaving evident residual traces.

Road marking assembly	Road markings, possibly combined with retro reflective road studs, can provide for horizontal road signing. Road markings can be realized by the application of an assembly consisting of a paint (compliant with this PTV) and drop-on glass beads or a mixture of glass beads and anti-skid aggregate.
Roll-over class	Number of wheels passages over a point of a road surface within a specified period of time.
Supplier	The party having to ensure that paints for road marking complies with the technical requirements.  This definition can apply to the producer, the dealer, the importer or the distributor.
Test	Technical action comprising the determination of one or more properties of a raw material or product according to a specified process.
Type testing	A series of checks to determine (initial type testing) the characteristics of a product article and its conformity.
Yellow orange	In this regulation the colour is yellow orange when the chromaticity coordinates lie within the region defined by the corner points of class Y2 of the EN 1436, article 4.4.1 table 6.

---

### 1.1.2 Abbreviations

PTV	Technical Requirements
Qd	Luminance coefficient under diffuse illumination
R <sub>L</sub>	Coefficient of retroreflected luminance
RW	Coefficient of retroreflected luminance during wetness

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### 1.1.3 References

G0025	Guide for the obtainment of an attestation of fitness for use G0025 Test sites on the road of Road marking assemblies
EN 1436	Road marking materials - Road marking performance for road users and test methods
EN 1824	Road marking materials - Road trials
EN 1871	Road marking materials - Physical properties
EN ISO 2811-1	Paints and varnishes - Determination of density - Part 1: Pycnometer method (ISO 2811-1:2016)
EN ISO 2811-2	Paints and varnishes - Determination of density - Part 2: Immersed body (plummet) method (ISO 2811-2:2011)

EN ISO 11890-2	Paints and varnishes - Determination of volatile organic compound (VOC) content - Part 2: Gas-chromatographic method (ISO 11890-2)
EN 12802	Road marking materials - Laboratory methods for identification
EN ISO/IEC 17067	Conformity assessment - Fundamentals of product certification and guidelines for product certification schemes (ISO/IEC 17067:2013)

This PTV contains dated and undated references. Only the cited version applies to dated references. The latest version always applies to undated references, including any errata, addenda and amendments.

Of all the EN standards referred to in these requirements, the corresponding Belgian publication NBN EN applies in each case. COPRO can allow the use of a publication other than the Belgian one provided its content is identical to that of the Belgian publication.

## 1.2 AVAILABILITY OF THIS PTV

The current version of this PTV is available free of charge on the COPRO website.

A paper version of this PTV can be ordered from COPRO. COPRO has the right to charge for this.

No changes may be made to the original PTV approved by the sectoral commission and/or confirmed by the Management body of COPRO.

## 1.3 STATUS OF THIS PTV

### 1.3.1 Version of this PTV

This PTV concerns version 4.0 which will replace version 3.0.

### 1.3.2 Approval of this PTV

This PTV was approved by the Sectoral Commission on the 30<sup>th</sup> of September 2024.

### 1.3.3 Confirmation of this PTV

This PTV was confirmed by the Management body of COPRO on the 3<sup>rd</sup> of December 2024.

### 1.3.4 Registration of this PTV

This PTV was submitted to BENOR non-profit organisation on the 9<sup>th</sup> of December 2024.

## **1.4 HIERARCHY OF RULES AND REFERENCE DOCUMENTS**

### **1.4.1 Legislation**

If certain rules contained in this PTV are inconsistent with applicable law, the rules arising from the legislation shall prevail. It is the responsibility of the supplier to monitor this and report any contradictions to COPRO in advance.

### **1.4.2 Directives concerning health and safety**

If certain technical requirements are inconsistent with the directives concerning health and safety, such directives shall prevail. It is the responsibility of the supplier to monitor this and report any contradictions to COPRO in advance.

### **1.4.3 Tender documents**

If certain rules from the applicable tender document are inconsistent with these technical requirements, the supplier can report this to COPRO.

## **1.5 QUESTIONS AND COMMENTS**

Questions or comments concerning these technical requirements are directed to COPRO.



## 2 CONTEXT OF TECHNICAL REQUIREMENTS

### 2.1 PTV REDACTION

#### 2.1.1 Redaction of this PTV

These technical requirements for the paints for road marking are drawn up by the Sectoral Commission Road marking materials of COPRO.

### 2.2 OBJECTIVES

#### 2.2.1 Purpose of this PTV

The aim of this PTV is to specify requirements for the paints used for road markings.

### 2.3 SCOPE

#### 2.3.1 Subject of these technical requirements

The subject of these technical requirements are white paints to be used for permanent road markings and yellow orange paints to be used for temporary road markings, both in circulation areas. Other products and colours intended for road markings are not covered by this PTV. The paints that are the subject of the PTV are intended to be sprayed (paint without premix glass beads) and dropped on with glass beads or with mixtures of glass beads and antiskid aggregates during the application, in order to form a road marking assembly.

This PTV does not cover the compatibility of paints with old marking materials. If necessary, the compatibility of two products will have to be evaluated on a case-by-case basis.

#### 2.3.2 Circulars

COPRO can supplement this PTV with one or more circulars forming an integral part of this PTV.

## **2.4 REFERENCE DOCUMENTS**

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### **2.4.1 Product standards**

There is no applicable product standard(s) for paints for road marking.

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### **2.4.2 Tender documents**

The tender document(s) can refer to this PTV 883.

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### **2.4.3 Test methods**

The applicable test method(s) are mentioned in chapter 4.

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### **2.4.4 Other**

Other applicable reference documents are mentioned in article 1.1.3.

## 3 REQUIREMENTS

### 3.1 PRODUCTION UNIT AND EQUIPMENT

#### 3.1.1 Production unit

No requirements are set for the production unit and equipment.

### 3.2 RAW MATERIALS

No requirements are set for the raw materials.

### 3.3 PRODUCTION PROCESS

The packaging shall provide that the average of the effective content of 10 packages is not less than the nominal content. No package at all may have a content lower than 95 % of the declared content.

#### 3.3.1 Viscosity

The viscosity of the paint at the end of the production process shall be determined.

The manufacturer shall state tolerances for the viscosity.

The viscosity of the paint is tested in accordance with EN 12802 Annex G.

### 3.4 PAINT FOR ROAD MARKING

#### 3.4.1 General

- 3.4.1.1 The paint for road marking meets the requirements set out in articles 3.4.2 to 3.4.6. For paint which is to be applied directly to hydraulic concrete surfaces the alkali resistance of article 3.4.7 is applicable. This test is not applicable if the paint is not intended to be applied directly to hydraulic concrete surfaces but after application of a primer, recommended by the manufacturer. This primer is not covered by the PTV.
- 3.4.1.2 The supplier shall in each case declare the performance for the characteristics set out in articles 3.4.2 to 3.4.6 for the paint for road marking. The storage stability (article 3.4.3 is only tested if the lab tests are performed earlier than the recommended shelf life (see article 5.2.4) after sampling, otherwise this characteristic is considered as complying without further testing, as the paint could be homogenized for the tests. Articles 3.4.5 and 3.4.6 are composition criteria but also identification tests (see next article and article 3.6 type testing).

3.4.1.3 Article 3.4.9 to 3.4.14 are identification tests. These tests are realised to allow a limited series of tests to verify whether the manufactured or delivered paint is identical to the paint that was subjected to the entire series of tests. The test results are compared to the declared value (see also article 3.6 type testing).

For type testing of the identification characteristics, tolerances apply to the manufacturers declared values for the tested properties. The initial test results shall be within the tolerances mentioned in the next articles.

For re-identification of a paint, it may not be necessary to test all the values. Reference values for the tested properties shall be the values declared by the manufacturer.

---

### 3.4.2 Chromaticity coordinates and luminance factor

The chromaticity coordinates are in accordance with EN 1871 table 2.

The class of the luminance factor is in accordance with EN 1871 article 4.2.1 table 1 LF6 ( $\geq 0,80$ ) for white paint and LF2 ( $\geq 0,50$ ) for yellow orange temporary paint.

The chromaticity coordinates and luminance factor are determined in accordance with EN 1871 Annex A.

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### 3.4.3 Storage stability

The paint shall be free from skin and settlement that cannot be re-incorporated by stirring. The paint shall have a rating equal to or above 4.

The storage stability is determined in accordance with EN 1871 Annex C.

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### 3.4.4 Bleed resistance

The chromaticity co-ordinates after bleed resistance are in accordance with EN 1871, table 2. For both white and yellow orange, the difference in luminance factor  $\Delta\beta$  is in accordance with EN 1871 article 4.2.5 BR2.

The bleed resistance is determined in accordance with EN 1871 Annex D.

The chromaticity coordinates and luminance factor are determined in accordance with EN 1871 Annex A.

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### 3.4.5 Solid content

The solid content shall be declared and shall be at least 70 %.

The maximum accepted deviation from the declared value is +/- 2,5 % for type testing and for re-identification.

The solid content of the paint is determined in accordance with EN 12802 Annex A.

### 3.4.6 Solvent content and identification

Initial type testing includes determination and identification of the solvents.

For water-based paints the aromatic solvent content shall be maximum 0,5 % and the maximum VOC-content maximum 60 g/l. For solvent-based paint the aromatic solvent content shall be maximum 0,5 %. For the other solvents the maximum accepted absolute deviation for re-identification is 3,5 % for each solvent (2,5 % for the total solvent content see article 3.4.5).

The identification of the solvents and the solvent content are determined in accordance with EN 12802 Annex F.

### 3.4.7 Alkali resistance

This test is only applicable for paint which is to be applied directly to hydraulic concrete surfaces.

The paint film shall show no deterioration of the surface.

The alkali resistance is determined in accordance with EN 1871 Annex E.

### 3.4.8 Durability on road trial, tested on the paint in a road marking assembly

The requirements for the road marking assembly are mentioned in the following table.

Characteristic	Minimum requirements	
	White permanent	Yellow orange temporary
Luminance coefficient under diffuse illumination (Qd)	Q2	Q2
Retroreflection under vehicle headlamp illumination, Dry (RL)	R2	R3
Retroreflection under vehicle headlamp illumination, wet (RL)	RW0	RW0
Retroreflection under vehicle headlamp illumination, rain (RL)	RR0	RR0
Skid resistance	S1	S1
Colour (x,y)	EN 1436 Table 6	EN 1436 Table 6 (Y2)
Removability	NA	pass
Minimum roll-over class where above mentioned characteristics still comply	P5	T2

The road marking assembly, consisting of the paint and drop-on materials is subjected to a durability test on the road, in accordance with the G0025 guide.

The results are evaluated according to G0025.

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### **3.4.9 Density**

The density shall be declared.

The maximum accepted deviation from the declared value is 0,04 g/cm<sup>3</sup> for type testing and for re-identification.

The density of the paint is determined in accordance with either EN ISO 2811-1 (pycnometer method) or EN ISO 2811-2 (Immersed body (plummet) method).

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### **3.4.10 Content of non-volatile organic compounds (binders and additives; NVO)**

The content of non-volatile organic compounds shall be declared.

The maximum accepted absolute deviation from the declared value is 2,5 percent by weight for type testing and for re-identification.

The content of non-volatile organic compounds as a percentage of the paint is determined in accordance with EN 12802 Annex B or, if identification of the constituents is not required, according to article 4.3.

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### **3.4.11 Identification of the organic constituents**

Initial type testing includes determination of the infrared spectrum of the organic constituents.

When assessing the identity of two infrared spectra (re-identification) it has to be checked if all absorption-/transmission peaks are present or there are additional occurrences which are significantly different from the baseline to stand out. The relative height levels between peaks must not change significantly.

The type of organic constituents is determined in accordance with EN 12802 Annex B.

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### 3.4.12 Identification of pigment and fillers

Initial type testing includes determination of the infrared spectrum of the pigments and fillers.

When assessing the identity of two infrared spectra (re-identification) it has to be checked if all absorption-/transmission peaks are present or there are additional occurrences which are significantly different from the baseline to stand out. The relative height levels between peaks must not change significantly.

The type of pigment and fillers, is determined in accordance with EN 12802 Annex C.

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### 3.4.13 Titanium dioxide content

The titanium dioxide content shall be declared.

The maximum accepted absolute deviation from the declared value is 1,5 percentage by weight for type testing and for re-identification.

The titanium dioxide content is determined in accordance with EN 12802 Annex D, but the titanium dioxide content shall be expressed as percentage by weight of the solid content.

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### 3.4.14 Ash content

The ash content shall be declared.

The maximum accepted absolute deviation from the declared value is 3,5 percentage by weight for type testing and for re-identification.

The ash content is determined in accordance with EN 12802 Annex H.

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## 3.5 CLASSIFICATION

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### 3.5.1 Classification

In function of the use or application the paints can be classified in:

- white paints;
- yellow orange temporary paints.

In function of the road surface material the paints can be classified in:

- paints where manufacturers foresee direct application on hydraulic concrete surfaces, tested for alkali resistance.
- paints, not to be applied directly to hydraulic surfaces.

## **3.6 TYPE TESTING**

### **3.6.1 General**

- 3.6.1.1 The type test comprises laboratory validation of the characteristics according to articles 3.4.2 up to 3.4.7 and validation on the road trial site on the N63 in Baillonville, Belgium for the characteristic of article 3.4.8.
- 3.6.1.2 The type test of the identification characteristics according to articles 3.4.9 up to 3.4.14 is only required to allow a limited series of tests to be used to verify whether the manufactured or delivered paint is identical to the paint that was subjected to the entire series of tests according to articles 3.4.2 up to 3.4.8.

### **3.6.2 Scope**

Every product article is tested. For the characteristic according to article 3.4.8 the manufacturer can determine performances with different drop on materials and/or with different dosages of paint and/or drop on materials.

### **3.6.3 Requirements**

- 3.6.3.1 At least the characteristics according to articles 3.4.2 up to 3.4.8 are determined in the type test, see also article 3.6.1.2.
- 3.6.3.2 The type test is generally performed on the samples taken during the road trials for the determination of the performances of the characteristic of article 3.4.8. If (some) laboratory tests according to articles 3.4.2 up to 3.4.7 are performed on other samples, at least the identification tests according to article 3.4.5, 3.4.6, 3.4.9 and 3.4.11 up to 3.4.13 are performed and the results shall comply to the requirements for re-identification.

### **3.6.4 Type test report**

The evaluation of the results of the type test is recorded in an assessment report.

### **3.6.5 Validity**

The type test is valid as long as the raw materials are equivalent. The equivalence of the raw materials can be verified with the identification tests on the final product.



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### **3.6.6 Modifications**

If a raw material, the composition, the production process or other relevant parameters are adjusted, the supplier must assess the influence of this modification on the characteristics of the product article, including possible changes in identification (see also article 3.6.5).

It may prove necessary in this regard to re-run the entire or part of the type test.

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### **3.6.7 Repeat type testing**

This article is not applicable.

## 4 TEST METHODS

### 4.1 SAMPLING

#### 4.1.1 Sampling method for representative sampling

For lot controls according to article 6.2 the sampling is according to EN 13459.

#### 4.1.2 Sampling method for spot samples

For external control of the factory production control a sample is taken from one bucket or intermediate bulk container (after homogenization).

For factory production control the manufacturer can use another method as long as he shows the method is representative for the produced batch (example given by comparing results of samples taken with this method and compared with the method of the previous paragraph).

### 4.2 SAMPLE PREPARATION

#### 4.2.1 Sample preparation

The paints are homogenized before testing.

### 4.3 CONTENT OF NONVOLATILE ORGANIC COMPOUNDS: ALTERNATIVE METHOD

#### 4.3.1 Aim and principle

When it's not requested to identify the organic constituents according to article 3.4.12 (example given for factory production control), the organic content can be obtained by this alternative method. The organic content is obtained via determination of the solid content according to article 3.4.5 and the inorganic content by ash residue at 450 °C.

#### 4.3.2 Instruments

Instruments:

- Electric muffle furnace, adjustable to 450 °C ± 25 °C;
- Analytical balance with an accuracy of 0,01 g;

- Crucible, adapted to temperatures of 450 °C;
- Desiccator, with drying agent, example given silica gel.

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### 4.3.3 Sample preparation

See article 4.2.1.

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### 4.3.4 Method

4.3.4.1 The paint is ashed at 450 °C ± 25 °C in a muffle furnace and the loss in mass determined.

Carry out two determinations.

Weight the empty crucible to the nearest 0,01 g (W1). Place a syringe with 1 to 2 ml of the paint on the balance, and tare. Empty the syringe in the crucible and weigh the difference of weight to the nearest 0,01 g carefully homogenized in a crucible (W2). If necessary, the crucible can be put in an oven at a temperature < 450 °C to evaporate at least a part of the solvents before the next step. Place the crucible in the muffle furnace afterwards and raise the temperature to 450 °C ± 25 °C. Keep the crucible in the furnace for at least 2 h at 450 °C ± 25 °C or until constant mass is obtained. Remove the crucible containing the residues, cool in a desiccator and reweigh (W3).

---

### 4.3.5 Result

The percentage of inorganic constituents (residue of combustion, IC) shall be determined using the following equations:

$$IC = \frac{W_3 - W_1}{W_2 - W_1} \times 100$$

where:

- W1 is the mass of the empty crucible,
- W2 is the mass of the crucible together with the sample in grams,
- W3 is the mass of the crucible together with the residue in grams.

The organic content (OC) is given by the difference:

$$OC = SC - IC$$

where SC is the solid content (determined according to article 3.4.5).

If the results of the individual determinations of the binder or inorganic content differ by more than 0,5 % by mass from the mean, repeat the procedure.

The mean of the two individual results shall be calculated and the binder content given rounded to the nearest 0,1 % by mass.

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#### **4.3.6 Test report**

The test report sets out at least:

- the details and identification of the sample;
- the average of the two determinations according to the articles 4.3.4 and 4.3.5.

## 5 PRODUCT IDENTIFICATION

### 5.1 PRODUCT NAME

#### 5.1.1 Official name

The official name of paint according to this PTV is as follows:

- “solvent based white paint”,
- “water based white paint” or
- “water based yellow orange paint for temporary road markings”,
- “solvent based yellow orange paint for temporary road markings”.

#### 5.1.2 Commercial name

The commercial name is freely chosen by the supplier insofar as it does not lead to confusion or conflict with the official name.

### 5.2 IDENTIFICATION

#### 5.2.1 Delivery modes

5.2.1.1 Paints can be delivered in bulk or in a package.

5.2.1.2 If paint is delivered in package, it is identified on each packaging unit (example given per bucket) and per group of packages (example given per pallet).

#### 5.2.2 Individual packages

The following information must be given on each packaging unit:

- name and address of the supplier and/or producer,
- name(s) of the paint,
- the quantity of the content,
- the batch or production number,
- the shelf life or production date and, if shelf life is not mentioned on the package, reference to a technical datasheet that mention the shelf life (see 5.2.4),
- statements regarding the conditions for storage and the period of storage. If this is not the case, the label must refer to a technical datasheet specific to the paint.

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### **5.2.3 Group of packages**

There are no requirements for identification of the group of packages.

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### **5.2.4 Shelf life**

The shelf life of the paint is stated on the basis of:

- the date preceded by the words: 'Best before ...' when the date includes an indication of the day, 'Best before end ...' in other cases,
- or on the basis of the production date and the shelf life in months or years.

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## **5.3 DELIVERY NOTE**

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### **5.3.1 Information**

Each delivery of paint is additionally accompanied of the delivery documents.

The following information is given on the delivery documents:

- name and address of the supplier and/or producer,
- name of the customer,
- name(s) of the paint,
- date of loading,
- quantity of paint.

## 6 ASSESSMENT OF DELIVERIES

### 6.1 PRODUCT CHECK BY THE CUSTOMER ON DELIVERY

#### 6.1.1 Check by the customer

On receipt of the paint, the customer checks:

- compliance of the delivery note with the ordered goods;
- in case of individual packages, compliance of the identification of the product with the delivery note.

If the paint is delivered under the voluntary BENOR mark, the conformity of the product is demonstrated, and article 6.2 does not apply.

### 6.2 LOT CONTROL BEFORE DELIVERY

#### 6.2.1 General

The aim of a lot control is to check whether there is sufficient confidence that the characteristics of the paints of a supplied lot comply with this PTV.

#### 6.2.2 Sampling

6.2.2.1 Sampling is carried out in principle by an impartial body or by the recipient (generally a road authority) on the supplier's premises.

6.2.2.2 Sampling is carried out according to article 4.1.1 and is representative of the entire lot.

#### 6.2.3 Lot size and number of samples

Number of samples are according to EN 13549.

#### 6.2.4 Checking

At least all the characteristics of articles 3.4.2 up to 3.4.8 are tested.

#### 6.2.6 Processing of the paint

The paints of a lot may only be processed after all the results of the test are known and satisfactory.

## 7 PROCESSING OF THE PRODUCT (informative)

### 7.1 STORAGE OF THE PRODUCT

#### 7.1.1 Storage conditions

The paints should be stored in the closed original package, protected from heat, sun and frost. Manufacturers can add additional recommendations on the technical data sheet.

The paint should best be used within the recommended shelf life, see article 5.2.4.

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