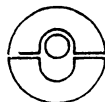


INTERNATIONAL



UNION OF RAILWAYS

U I C CODE

Leaflet to be classified in Volumes :

V - TRANSPORT STOCK

VIII- TECHNICAL SPECIFICATIONS

842-1
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1st edition, 1-7-75
Brought up to date on

**TECHNICAL SPECIFICATION FOR THE SUPPLY
OF PAINT PRODUCTS FOR THE PROTECTION
OF RAILWAY VEHICLES AND CONTAINERS**

(Reprint, 1-7-91)



Documents

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1 - PURPOSE

1-1 - Nature of the products

This specification defines the general characteristics, also the acceptance conditions, of paints and paint systems intended for the protection of railway vehicles and containers.

1-2 - Classification

The characteristics of the paint products are verified by series of tests effected :

- in delivery condition,
- when ready for application,
- in the dry film state.

1-3 - Reference documents

Reference is made to the following documents in the text of this specification :

UIC Leaflets 842-2 : Methods of testing for paint products

842-4 : Technical specification for the protection against corrosion and painting wagons and containers.

842-5 : Technical specification for the protection against corrosion and painting of coaches and tractive units.

ISO Standard 2409 : Paint and varnish. Quadrillage tests.

1-4 - Details to be shown in the orders

The purchasing Railway must specify in the order which tests it has adopted for the approval and acceptance of the paints. It must also specify the results to be obtained for the tests in paragraphs : 2-13, 2-24, 2-311, 2-313, 2-316, 2-317 :

- any extensions of tests prescribed in 2.52 and 2.53,
 - the guarantee period prescribed in 2.16,
 - the method of submission for acceptance prescribed in 4,
 - the additional inscriptions it wishes to be shown on the containers - 5-2,
- and supply the samples prescribed in 2.42.

2 - CHARACTERISTICS

2-1 - Characteristics in delivery condition

2-11 - Nature and composition

No condition is imposed concerning the nature and composition of the paint products, subject to them complying with the characteristics required by this specification, that they are in conformity with legislation concerning toxicity in force on the purchasing Railway, and that the components and their proportions are the same as those recorded on the approved sample, within the tolerances.

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2-12 - Mass per unit volume

The mass/unit volume of the product, determined in accordance with the provisions of 3-11 of leaflet 842-2, must not differ by $\pm 5\%$ from that recorded at the same stage on the approved product.

2-13 - Content of volatile and non-volatile materials

The content of volatile and non-volatile materials is determined in accordance with the provisions of 3-12 of UIC Leaflet 842-2.

The content of non-volatile materials of the product is fixed by the purchasing Railway.

2-14 - Consistency

The consistency of the product, determined in accordance with the provisions of 3-13 of UIC Leaflet 842-2, must be equivalent, within the limits of the permissible tolerances, to the value recorded on the approved sample.

2-15 - Fineness in powder form

The fineness of the product in powder form, determined in accordance with the provisions of 3-14 of UIC Leaflet 842-2, must be :

- $\leq 30 \mu\text{m}$ for anti-corrosive priming paints,
- $\leq 20 \mu\text{m}$ for the paints of intermediate and finishing coats,
- $\leq 10 \mu\text{m}$ for reactive priming paints (wash primers).

Concessions may be granted by the purchasing Railway on written request of the supplier.

2-16 - *Stability during storage*

The stability during storage is determined in accordance with the provisions of 3-15 of UIC Leaflet 842-2.

The paint products must retain , without suffering any appreciable change - especially the forming of skins or excessive settling of pigments, all the properties described in this technical specification, at least during the guarantee period defined by the purchasing Railway, with effect from the date of delivery by the manufacturer.

2-17- *Resistance to frost of paint products with a water solvent*

The resistance to frost of paint products with a water solvent is checked in accordance with the provisions of 3-16 of UIC Leaflet 842-2.

The products must not show any trace of separation and must retain their application characteristics.

2-18- *Flash-point - danger class.*

The flash point is determined in accordance with the provisions of 3-17 of UIC Leaflet 842-2, and must be $\geq + 21^{\circ}\text{C}$.

As an exception, a concession can be granted to the supplier on his written request, by the purchasing Railway, which shall fix the permissible flash-point.

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2-2 - Characteristics when ready for application**2-21 - Consistency**

The consistency is determined in accordance with the provisions of 3-13 of UIC Leaflet 842-2, and must permit correct use of the paint product.

2-22 - Mass per unit volume

The mass/unit volume of the product, determined in accordance with the provisions of 3-11 of UIC Leaflet 842-2, must not differ by $\pm 5\%$ from that recorded at the application stage on the approved paint sample.

2-23 - Colour concentration per unit volume - CPV

The colour concentration per unit volume of the product, determined in accordance with the provisions of 3-21 of UIC Leaflet 842-2, must not differ by $\pm 2\%$ from that recorded at the application stage on the approved paint sample.

2-24 - Pot life

The pot life of the mixture of components at application consistency is determined in accordance with the provisions of 3-22 of UIC Leaflet 842-2, and must not be less than that specified by the purchasing Railway.

At the end of this period, the mixture must not show any signs of curdling, or appreciable gelling.