

07015 Hot Applied Traffic Paint

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07015-1 Scope

This specification is intended to cover white and yellow hot applied traffic paint to be applied to either asphaltic or portland cement concrete pavements.

07015-2 Applicable Specifications

The most recent revisions of the following, specifications, test methods and standards form a part of this specification where referenced.

American Society for Testing and Materials (ASTM) D-126, D-713, D-821, D-868, D-969, D-913, D-1394 and E-97.

Canadian Government Standards Board Specification (CGSB) 1-GP-12.1C and 1-GP-71.

07015-3 General Requirements of Product

It is the intent of this specification to procure, for use by the City of Saskatoon, the most efficient traffic paint possible with regard to service and cost. Service includes general appearance, colour, night visibility, and durability. The composition of the paint shall be left to the discretion of the manufacturer, and it is his responsibility to formulate and produce in sufficient quantity, a paint meeting the requirements specified herein.

3.1 General

The paint shall be free from foreign materials, such as dirt, sand or other material capable of clogging screens, valves, pumps, or other equipment used in a paint striping apparatus.

The paint pigment shall be well ground and properly dispersed in the vehicle. The paint shall not cake or thicken in the container and shall not become granular or curdled. Any settled pigment shall be easily redispersed, with minimum resistance to form a smooth uniform product of proper consistency which is capable of being sprayed at the temperature intended for the paint.

The properties described above shall remain for twelve (12) months after delivery and acceptance by the City of Saskatoon. The vendor will be held responsible for all costs and transportation charges incurred in replacing paint which is unfit for use.

3.2 Paint Colour and Cleaner

1. **White Paint** - CGSB 1-GP-12.1C White 513-301
2. **Yellow Paint** - CGSB 1-GP-12-1C Yellow 505-308.
3. **Cleaner Solvent** - Shall be specified by the paint manufacturer.

3.3 Physical and Chemical Requirements

Paint shall conform to the requirements of Table 1.

Table 1: Paint Physical and Chemical Requirements

Tests	Requirements		Test Methods CGSB 1-GP-71	ASTM
	Minimum	Maximum		
Bleeding	6			D969-57 D868-48
Viscosity (Kreb Units) @ 25 ± 1°	80.0	95.0	4.5	
Drying Time (Minutes) @ 60 ° C		3.0	5.1	D711-75
Fineness of Grind (Hegman)	3.0			D-1210
Volatiles (Total) (% by Mass)		30.0	1.71	
Pigment Content (% by Mass)	50.0	58.0	21.0	
Reflectance % White Paint Yellow Paint	80.0 50.0			E-97 E-97
Settling	6.0			D-869-78
Hiding Power * (m ² /l)	6.5			
* Note: The paint shall flow evenly and smoothly and cover solidly in one coat when applied at a rate of 6.15 m ² per litre when tested using PFUND criptometre.				

07015-4 Sampling and Testing

No samples will be required to be submitted with the tender. Samples may be required for the acceptance of a tender and they will be requested at that time. A sample shall consist of a minimum of two (2) four litre cans of each paint to be tested. All samples shall be clearly identified by the manufacturer's name and code number.

The supplier shall submit one complete "Paint Data Form" for each tendered formulation of paint (see Appendix 1 – Paint Data Form). Tenders for which a "Paint Data Form" has not been submitted will not be considered. Paint data forms which indicate paint that does not meet the requirements of this Specification will be rejected.

07015-5 Quality Assurance

Samples may be taken from paint shipments at any time. These samples shall be subject to inspection and testing. The physical and chemical properties of all shipments and manufacturer's production batch samples shall be identical to those listed on the paint data form. Deviation between the test results and those listed on the paint data form will be cause for rejection. The vendor will be held responsible for all costs and transportation charges incurred in replacing the paint which is unfit for use.

In the event of the rejection of a batch of paint, and if the City of Saskatoon must purchase paint from a source outside this contract to continue its operation, the vendor will be responsible for the difference in cost between the contractual price and any additional costs incurred by the City including any transportation charges.

07015-6 Delivery and Packaging**6.1 Packaging**

All manufactured paint shall be prepared at the factory ready for application.

The finished paint shall be furnished in a container size as specified in the original tender contract. When 20 litre containers are specified they shall be round, minimum 24 gauge steel containers with properly fitting lids and seals. When 205 litre drums are specified they shall be round, minimum 18 gauge steel containers equipped with a 50 mm bung.

All containers shall be properly sealed and shall show no signs of leakage and remain in satisfactory condition for a period of twelve (12) months after delivery. The vendor will be held responsible for all costs and transportation charges incurred in replacing paint and containers.

All containers must be shipped on pallets and must be loaded in such a manner as to facilitate unloading by a forklift.

6.2 Markings

Each container shall be clearly marked with weather resistant markings to show the following information:

1. Colour and type of paint
2. Manufacturer's name and address
3. Manufacturer's code and batch numbers
4. Date of filling of container
5. Volume of container

07015-7 Measurement

Traffic paint will be measured in litres.

End of Specification 07015

Appendix 1 – Paint Data Form

Manufacturer _____

Manufacturer's Code No. _____

Colour of Paint _____

Composition of Paint	% by Mass	% by Volume
Pigment		
Non-Volatile		
Volatile		

Composition of Pigment

% by Mass

1) _____

2) _____

3) _____

4) _____

Type of Vehicle _____

Type of Thinner _____

Type of Driers _____

Viscosity of Finished Paint (Krebs) _____

Drying Time @ 60°C _____

Fineness of Grind _____

Reflectance _____

Settling _____

Hiding Power _____