

CT 2420/2007

Contracts Circular N° 9/2008

Department of Contracts  
Notre Dame Ravelin  
Floriana

To Heads of Department  
and Parastatal Bodies

24 March 2008

## **VARIOUS PAINTS AND VARNISH**

- 1 Heads of Department and Accounting Officers are requested to note that the contracts for the supply and delivery of various paints and varnish to Government Departments and Parastatal Bodies, as and when required, have been placed with the contractors shown below at the prices and for the brands indicated on the attached Schedule. Prices are inclusive of all charges and taxes including 18% VAT as indicated hereunder:-

- a) M/S K3 Co Ltd  
BTI Bulebel Industrial Estate  
Żejtun

Tel: 21693633

VAT: 1073 – 9502

- b) Berger Paints (Malta) Ltd.  
Industrial Estate  
Hal Far BBĠ 3000

Tel: 21658855 / 21652996

VAT: 1178 – 8636

- c) S&R Handaq  
Jaxa Works  
Handaq Road  
Qormi

Tel: 21499042

VAT: 1008 – 5012

2. Payments to the above contractors are not to be made until further notice.
3. This contract shall run up to the 31st December 2008.
4. The specifications and conditions regulating this contract are attached. Strict adherence to the contract conditions particularly Clauses 5, 13, 15 and 16 of the attached Specifications and Special Conditions is recommended.
5. This contract is also governed by the usual "General Conditions for the Supply of Goods and Materials under a Running Period Contract."

F Attard.  
Director General (Contracts)

**The Schedule – Various Paints and Varnish**

| <b>Item No.</b> |     | <b>Description of Paint</b>                    | <b>Tin Size</b> | <b>Contractor</b> | <b>Price per Tin<br/>Delivered inclusive<br/>of all charges and<br/>taxes<br/>Lm</b> | <b>Brand</b> |
|-----------------|-----|--|-----------------|-------------------|--|--------------|
| 1.              | 1.1 | <b>Plastic Emulsion</b><br>Magnolia            | Tins X 5 ltrs   | K3 Co. Ltd.       | 2.13,0   | K3           |
|                 | 1.2 | White  |                 | K3 Co. Ltd.       | 2.13,0   | K3           |
|                 | 1.3 | Light Cream                                    |                 | K3 Co. Ltd.       | 2.13,0   | K3           |
|                 | 1.4 | Pale Green                                     |                 | K3 Co. Ltd.       | 2.13,0   | K3           |
| 2.              | 2.1 | <b>Paint Enamel, High Gloss</b><br>Ivory       | Tins X 5 ltrs   | S & R Handaq Ltd. | 5.43,0   |              |
|                 | 2.2 | White  |                 | S & R Handaq Ltd. | 5.43,0   |              |
|                 | 2.3 | Black  |                 | S & R Handaq Ltd. | 4.95,0   |              |
|                 | 2.4 | Mist Grey                                      |                 | S & R Handaq Ltd. | 5.43,0   |              |
|                 | 2.6 | Ivory  | Tins X 2.5 ltrs | S & R Handaq Ltd. | 2.95,0   |              |
|                 | 2.7 | White  |                 | S & R Handaq Ltd. | 2.95,0   |              |
|                 | 2.8 | Black  |                 | S & R Handaq Ltd. | 2.71,0   |              |
|                 | 2.9 | Mist Grey                                      |                 | S & R Handaq Ltd. | 2.95,0   |              |
|                 |     |  |                 |                   |  |              |
| 3.              |     | <b>Undercoat for use with<br/>Enamel Paint</b> | Tins X 5 ltrs   |                   |  |              |
|                 | 3.1 | Ivory  |                 | S & R Handaq Ltd. | 4.72,0   |              |
|                 | 3.2 | White  |                 | S & R Handaq Ltd. | 4.72,0   |              |
|                 | 3.3 | Black  |                 | S & R Handaq Ltd. | 3.95,0   |              |
|                 | 3.4 | Green  |                 | S & R Handaq Ltd. | 4.78,0   |              |

**The Schedule – Various Paints and Varnish**

| Item No. |     | Description of Paint  | Tin Size        | Contractor         | Price per Tin<br>Delivered inclusive<br>of all charges and<br>taxes<br>Lm | Brand |
|----------|-----|---|-----------------|--------------------|---|-------|
|          | 3.5 | Ivory   | Tins X 2.5 ltrs | S & R Handaq Ltd.  | 2.63,0  |       |
|          | 3.6 | White   |                 | S & R Handaq Ltd.  | 2.63,0  |       |
|          | 3.7 | Black   |                 | S & R Handaq Ltd.  | 2.42,0  |       |
|          | 3.8 | Green   |                 | S & R Handaq Ltd.  | 2.57,0  |       |
| 4.       | 4.1 | <b>Red Oxide Primer</b>   | Tins X 2.5 ltrs | S & R Handaq Ltd.  | 2.30,0  |       |
|          | 4.2 |   | Tins X 5 ltrs   | S & R Handaq Ltd.  | 3.95,0  |       |
| 5.       | 5.1 | <b>Zinc Phosphate</b>   | Tins X 2.5 ltrs | *Not awarded       | -   |       |
|          | 5.2 |   | Tins X 5 ltrs   | *Not awarded       | -   |       |
| 6.       | 6.1 | <b>Primer Wood non-toxic<br/>leadless</b>                                     | Tins X 2.5 ltrs | S & R Handaq Ltd.  | 2.63,0  |       |
|          | 6.2 |   | Tins X 5 ltrs   | S & R Handaq Ltd.  | 4.72,0  |       |
| 7.       | 7.1 | <b>Varnish, Polyurethane clear,<br/>hard drying and high gloss<br/>finish</b> | Tins X 2.5 ltrs | Berger Paints Ltd. | 2.98,0  |       |
|          | 7.2 |   | Tins X 5 ltrs   | S & R Handaq Ltd.  | 5.31,0  |       |

\*Procurement for this item is to be made from the open market after obtaining quotations.

## **GENERAL SPECIFICATIONS**

### **Test Certificates**

Samples are not required. However prospective tenderers are to furnish with their offers an authentic test certificate (in English) issued by an independent laboratory confirming that the paint being offered is manufactured and complies fully with the specifications/standards indicated on the tender document. The testing and date of such certificates should not be earlier than two years from the closing date of the tender. Failure to comply with this condition will automatically invalidate the tender.

The successful tenderer shall ensure that the paint supplied under this contract shall be fully in accordance with the specifications indicated and not inferior in any way to the Standards quoted and the test certificates reports submitted with tender.

### **Keeping quality**

The paint shall be such that, if stored in its original sealed container under a normal temperature conditions for Malta, it will retain its specified properties for a period of not less than twelve (12) months from date of delivery.

### **Composition**

The choice of pigments thinners and binder is left to the discretion of the manufacturer but it is subject to approval by the Government.

### **Containers**

The paint shall be supplied in sound, clean and dry containers (in the capacity indicated by Department on supply order) strong enough to withstand normal usage and shall be adequately sealed to prevent leakage and contamination of contents during handling and transportation.

### **Labelling**

The containers shall each be legibly and durably marked with the appropriate designation of the paint, including the type, colour, a distinctive lot of batch number, and the manufacturer's name or recognised trade mark, as well as direction for use and the letters "GM".

### **Colour**

The colour shall be as agreed between the supplier and the Government. The paint shall be manufactured such that the colour from different batches shall match and shall show no visible colour difference to the human eye.

## **A. SPECIFICATIONS FOR PLASTIC EMULSION PAINT**

### **Conditions in Container**

1. The paint shall not have an irritating or offensive odour and if any separation of liquid has taken place, the depth of the upper layer shall not exceed 5% of the total depth of the contents of the container.

### **Volatile Content**

2. The volatile matter present in the paint shall not exceed 50% by weight when the paint is tested by the method described in ISO 3251.

### **Reducibility with Water**

3. When reduced with water according to the manufacturer's instructions for roller, brush or spray application, the paint shall mix readily with a minimum amount of foaming to a smooth and homogeneous state. After the well mixed and reduced paint has been stored for 72 hours at  $25 \pm 2^{\circ}\text{C}$ , it shall show no sign of instability of the emulsion. The paint shall readily re-mix to a smooth, uniform state suitable for roller, brush or spray application.

### **Freedom from Coarse Particles**

4. When tested the paint shall not leave a residue of more than 1% by weight on a sieve of nominal aperture size 75 $\mu\text{m}$ .

### **Consistency**

5. When tested, the paint shall have a consistency laying between 200 and 425 Krebs Stormer grams at a shearing rate of 200 revolutions per minute when measured at a temperature of  $25 \pm 0.5^{\circ}\text{C}$ .

### **Drying Time**

6. The paint as supplied shall dry to a suitable condition for recoating within two hours at  $25 \pm 2^{\circ}\text{C}$  and  $70 \pm 5\%$  relative humidity.

### **Flexibility and Adhesion**

7. Flexibility and Adhesion shall be tested as described on ISO 1519 and ISO 1520 using a 50 $\mu\text{m}$  applicator. The paint applied on burnished tinplate of 0.3mm nominal thickness and air dried for 48 hours. A 6mm diameter mandrel shall be used for the bend test and an indentation depth of 5mm applied for the cupping test.

### **Hiding Power**

8. The hiding power of the paint after applying by brushing two successive coats of paint diluted according to the manufacturer's instructions shall be good and shall have a contrast ratio of at least 90% when tested as described in BS3900.

### **Brushing Roller Application & Recoating Properties**

9. When reduced with water according to the manufacturer's recommendations, the paint shall spread well when brush-applied and not splatter when applied by roller. The dry paint shall exhibit no floating, cracking, flaking, sagging, pitting, catering, curling, lifting of the underlying coats or any other undesirable, film characteristics.

### **Resistance to Washing**

10. Forty eight hours after the application of the two successive coats of paint diluted according to the manufacturer's instruction, the paint film shall not show signs of removal.

### **Colour**

11. The colour shall be as agreed between the supplier and the purchaser. The paint shall be manufactured such that the colour from different batches shall match and shall show no visible colour difference to the human eye.

## **B. SPECIFICATIONS FOR READY MIXED GLOSS ENAMEL PAINT**

### **Condition of Container**

1. The paint shall be free from surface skin, it shall not have jellied, its settling shall be soft and there shall be no foreign matter present.

### **Fineness of Grind**

2. The fineness of grind, when measured by the method described in BS 3900 shall not be more than 30um.

### **Brushing Properties and Appearance**

3. The paint shall on application flow and spread well and shall show no excessive pull under the brush. The paint film shall be free from sags and runs, shall show no brush marks, flotation of the pigment, streakness, joint lapping, flashing or any other undesirable film characteristics.

#### **Consistency**

4. When tested by the method described in A.S.T.M. specification D 562 - 55, the paint shall have a consistency of 100 - 190 Krebs Stormer grams at a shearing rate of 200 revolutions per minute when measured at a temperature of  $25^{\circ} \pm 0.5^{\circ}\text{C}$ .

#### **Drying Time**

5. The paint shall be in such a condition that when tested by the method referred to in ISO 9117 and BS 3900 shall become surface dry in not more than 8 hours and through dry in not more than 24 hours.

#### **Opacity**

6. The opacity of the film, prepared and tested by the method described in BS 3900/D4 using a block applicator of 120um shall have a contrast ratio of at least 88%.

#### **Gloss**

7. When tested by the method described in BS 3900/D5 using a 120um block applicator the paint shall have a gloss of not less than 75 UNITS at  $20^{\circ}$  geometry.

#### **Flexibility and Adhesion**

8. Seven days after application, using a mandrel 6.0mm diameter, the paint applied using a 50um applicator shall not crack or lose adhesion when tested by the methods described in ISO 1519 and ISO 1520. An indentation depth of 5mm shall be applied for the cupping test.

#### **Resistance to Abrasion**

9. The paint applied using a 50um block applicator shall resist removal after scrub-tested under a load of 500g - 550g, using a polymide filled brush as supplied with the Sheen Scrubtester 90316 scrub-testing apparatus.

#### **Colour Uniformity**

10. The colour shall be as agreed between the supplier and the purchaser. The paint shall be manufactured such that the colour from different batches shall match spectrally and shall show no visible colour difference to the human eye.



## **C. SPECIFICATIONS FOR UNDERCOAT FOR ENAMEL PAINT**

### **Condition in Container**

1. The paint shall be free from surface skin, it shall not have jellied, its settling shall be soft and there shall be no foreign matter present.

### **Fineness of Grind**

2. The fineness of grind, when measured by the method described in BS 3900 shall not be more than 60um.

### **Brushing Properties and Appearance**

3. The paint shall on application flow and spread well and shall show no excessive pull under the brush. The paint film shall be free from sags and runs, shall show no brush marks, flotation of the pigment, streakness, joint lapping, flashing or any other undesirable film characteristics.

### **Consistency**

4. The paint shall have a consistency of 180 to 280 Krebs Stormer grams at a shearing rate of 200 revolutions per minute when measured at a temperature of  $25 \pm 0.5^{\circ}\text{C}$ .

### **Drying Time**

5. The paint shall be in such a condition that when tested by the method described in ISO 9117 and BS 3900, shall become surface dry in not more than 5 hours and through dry in not more than 16 hours.

### **Opacity**

6. The opacity of the film, prepared and tested by the method referred to in BS 3900/D4 using a block applicator of 120um, shall have a contrast ration of at least 80%.

### **Gloss**

7. When tested by the method described in BS 3900/D5 using a 120um block applicator the paint shall have a gloss of not more than 20 UNITS at  $60^{\circ}$  geometry.

### **Flexibility and Adhesion**

8. Seven days after application, using a mandrel 6.0mm diameter, the paint applied using a 50um applicator shall not crack or lose adhesion when tested by the methods described in ISO 1519 and ISO 1520. An indentation depth of 5mm shall be applied for the cupping test.

### **Resistance to Abrasion**

9. The paint applied using a 50um block applicator shall resist removal after scrub-tested under a load of 500g-550g, using a polyimide filled brush as supplied with the Sheen Scrubtester 90316 scrub-testing apparatus.

### **Colour Uniformity**

10. The colour shall be as agreed between the supplier and the purchaser. The paint shall be manufactured such that the colour from different batches shall match spectrally and shall show no visible colour difference to the human eye.

## **D. SPECIFICATIONS FOR RED OXIDE PRIMER**

### **Composition**

1. The composition of the primer shall be as indicated in the table below:

|           |          |          |          |
|-----------|----------|----------|----------|
| Primer    | Pigment  | Resin    | Solvent  |
| Red Oxide | Min. 45% | Min. 25% | Max. 30% |

### **Conditions in the Container**

2. The primer in freshly opened container shall, on receipt, be free from skins, shall no livering, instability or caking and shall mix readily to a homogeneous state.

### **Consistency**

3. The consistency of the primer shall be 140 to 250 Krebs Stormer grams when measured at a shearing rate of 200 r.p.m.

### **Brushing Properties and Appearance**

4. The primer shall brush easily and the resultant film shall be uniform and free from roughness and grit. It shall show no running or sagging tendencies and not more than slight brush marks.

### **Drying**

5. The paint shall become surface-dry within 4 hours and through dry within 16 hours when tested by methods referred to in ISO 9117 and BS 3900.

### **Flexibility and Adhesion**

6. Seven days after application, using a mandrel 6.0mm diameter and 50um block applicator, the paint shall not crack or lose adhesion, when tested by the methods described in ISO 1519 and ISO 1520. An indentation depth of 5mm shall be applied for the cupping test.

### **Resistance to Salt Spray**

7. When subjected to a salt spray test for a period of 100 hours, there shall be no blistering, wrinkling or loss of adhesion of the film and no corrosion of the panel either visible or under the film.

### **Storage**

8. The articles supplied when stored at normal room temperature in the original sealed containers shall retain the properties detailed above for a period of not less than twelve (12) months.

## **E. SPECIFICATIONS FOR ZINC PHOSPHATE PRIMING PAINT**

### **Composition**

1. The composition of the paint shall be as shown below:

|         |             |
|---------|-------------|
| Pigment | 44% minimum |
| Resin   | 24% minimum |

The pigment shall contain a minimum of 44% zinc phosphate as  $\text{ZN}_3(\text{PO}_4) \cdot 22\text{H}_2\text{O}$ .

### **Conditions in Container**

2. The paint in freshly opened container shall be free from skins, shall show no livering, instability or caking and shall mix readily to a homogeneous state.

### **Consistency**

3. The consistency of the paint shall be 140 to 250 Krebs Stormer grams when measured at a shearing rate of 200 r.p.m.

### **Colour**

4. The colour of the paint shall be flat green.

### **Brushing Properties and Appearance**

5. The paint shall brush easily and the resultant film shall be uniform and free from roughness and grit. It shall show no running or sagging tendencies and not more than slight brush marks.

### **Drying**

6. The paint shall become surface-dry within 4 hours and through dry within 16 hours when tested by methods referred to in ISO 9117 and BS 3900.

### **Flexibility and Adhesion**

7. Seven days after application, using a mandrel 6.0mm diameter, and a 50um block applicator, the paint shall not crack or lose adhesion when tested by the methods described in ISO 1519 and ISO 1520. An indentation depth of 5mm shall be applied for the cupping test.

### **Resistance to Salt Spray**

8. When subjected to a salt spray test as laid down in BS 3900 Part F4 for 100 hours to steel panels coated with the paint using a 50um block applicator and air dried for 7 days, there shall be no blistering, wrinkling or loss of adhesion of the film and no corrosion of the panel either visible or under the film.

## **F. SPECIFICATIONS FOR WOOD-PRIMER**

1. The wood-primer non-toxic leadless paint is to be manufactured to B.S.5358:93 or an equivalent standard.
2. The maximum permissible lead content of the primer should not exceed 1%.
3. Tenderers offering to supply wood-primer are to produce with their offer a certificate (in English) as to the non-toxicity of the paint.