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### Validity

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The certificate holder is in possession of a confirmation certificate attesting to his/her status.

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**Potable water:** The water should be clean and preferably drinkable. Water that may be made potable by boiling may be used in its natural state.

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## Subject: Kolorcote-T Wall Coating

### Certificate holder: International Natural Stone (Pty) Ltd trading as Africote

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### Description and use

Kolorcote –T Wall Coating is a single-coat, cement-based, textured, coloured wall coating for use on all sound, suitably prepared surfaces shown in Table 1. A single coat of Kolorcote-T is suitable for use on all the internal wall surfaces listed and on all external walls as indicated in Table 1.

**Table 1**

Wall surface	USE
Cast-in-situ and precast concrete	All wall surfaces in all regions of South Africa
Sand cement plaster	
Sand cement bagged finishes	
Unrendered concrete bricks	All wall surfaces except external walls situated in coastal areas or areas where the annual rainfall exceeds 600 mm*
Hollow concrete blocks	All wall surfaces except external walls in coastal areas or areas where the annual rainfall exceeds 1000 mm
<i>Areas with a mean annual rainfall of less than 600 mm are areas such as Bloemfontein, Kimberly, Upington, Beaufort West, etc. and exclude Gauteng.</i>	

The restrictions listed in Table 1 will not apply where two coats of Kolorcote-T are used to coat the external wall surfaces in accordance with the certificate holder's instructions.

Kolorcote-T Wall Coating is available in ten different colours. It is supplied as a powder in 25 kg and 40 kg polypropylene bags with a plastic liner as described by the certificate holder. It is mixed on site with potable water in accordance with the instructions set out in the certificate holder's data sheets. The resultant thixotropic mixture is applied to the prepared wall surface using a block brush or broom.

This certificate and Agrément South Africa's assessment apply only to the Kolorcote-T Wall Coating manufactured by the certificate holder and applied by trained applicators to suitably prepared surfaces as described and illustrated in this certificate, and where the terms and conditions of certification are adhered to.

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## PREAMBLE

This certificate is issued by Agrément South Africa in terms of the powers granted to it by the Minister of Public Works. This certificate:

- has been granted after a technical appraisal of the performance of the Kolorcote-T Wall Coating for the [uses](#) covered by the certificate,
- is independent of any patent rights that may or may not subsist in the subject of the certificate,
- does not relieve the certificate holder from the obligation to obtain the prior approval of the building authority concerned for the use of the subject.

Agrément South Africa considers that the quality and performance of the Kolorcote-T Wall Coating will be satisfactory provided that the requirements stipulated in this certificate are adhered to. However, Agrément South Africa does not on behalf of itself, or the State, or any of its employees or agents, guarantee such quality or performance.

Responsibility for compliance with the requirements of this certificate and the quality of the finished wall coating resides with the certificate holder.

No action for damages, or any other claim whatsoever, lies against Agrément South Africa, its members, the State or any of its employees should the performance of the wall coating fail to comply with the standard as set out in this certificate.

Interested parties or users who are in any doubt about any detail or variation, should contact [Agrément South Africa](#).

The validity of this certificate is reviewed every three years. The certificate shall remain valid as long as Agrément South Africa is satisfied that:

- the certificate holder complies with the general and specific conditions of certification and the technical requirements stipulated in the certificate
- the performance-in-use of the subject is acceptable
- any changes in building legislation, regulations, relevant standards or Agrément performance criteria have not invalidated the technical assessment which formed the basis of certification.

Agrément South Africa reserves the right to withdraw the certificate at any time, should reasonable cause exist. Notices affecting the validity of this certificate will be published in the *Government Gazette*.

## PART 1: CONDITIONS OF CERTIFICATION

This certificate covers only the Kolorcote-T Wall Coating manufactured by the certificate holder where the coating is applied:

- by applicators who are trained by the certificate holder
- to suitably prepared internal and external wall surfaces as follows:
  - Cast-in-situ concrete/ precast concrete
  - concrete bricks (conventionally built with mortar beds and joints)
  - hollow concrete blocks (conventionally built with mortar beds and joints)
  - sand cement plaster
  - sand cement bagged finishes.

*Republic of South Africa National Building Regulations and Building Standards Act 103, 1997 Government notice No R 2378, Government Gazette No.12780, Pretoria, South Africa, 12 October 1990*

Any change to the production process or the material formulation or the method of application could result in various aspects of the performance of this product no longer complying with Agrément criteria. Any change not authorised by Agrément South Africa prior to its implementation would invalidate this certificate and the certificate could then not be used to demonstrate compliance with the National Building Regulations.

### General conditions

The polypropylene bags with a plastic liner used to package the products must be suitably marked with Agrément South Africa's identification symbol illustrated below and a note to the effect that only coatings applied by approved applicators can be claimed to be in accordance with this certificate.

### Validity

The validity of this certificate is subject to the continued participation of the certificate holder in Agrément South Africa's post-certification quality assurance scheme.

### Reappraisal

- must be requested by the certificate holder prior to implementing changes to the product
- will be required by Agrément South Africa if there are changes to the National Building Regulations or to Agrément criteria

### Kolorcote-T Wall Coating

Tested and approved  
fit-for-purpose for use as a wall  
coating

Certificate **2005/318**



The certificate may be withdrawn if the certificate holder fails to comply with the above requirements.

On behalf of the Board of Agrément South Africa

A handwritten signature in black ink, appearing to read 'B. Schryver', is centered on the page.

Chairman

22 August 2005

## **PART 2: ASSESSMENT**

### **Scope of assessment**

This assessment is based on:

- factory inspection
- known behaviour of the materials used in the wall coating
- documentation provided by the applicant
- tests conducted on conventional concrete brick and on conventional hollow concrete block walls coated as described in this certificate
- tests conducted on the product.

### **Assessment**

In the opinion of Agrément South Africa, the Kolorcote-T Wall Coating is suitable for the uses specified in Table 1.

Agrément South Africa's detailed comments on the various aspects of performance of the coating are set out in Table 2 below. Each aspect of performance was assessed by experts in that field.

Where applicable, the performance of the wall coating relates to the National Building Regulations as set out in Table 2. Any national building regulation not specifically referred to is considered to be outside the scope of this certificate and must be applied by the local authority in the normal manner.

**Table 2: Compliance with the National Building Regulations**

Aspects of performance	Opinion of Agrément South Africa	Explanatory notes
<b><i>Fitness for purpose of materials used</i></b>	The quality and suitability of the materials are satisfactory.	The materials used in the Kolorcote-T Wall Coating are deemed to satisfy the requirements of regulation <b>A 13(1) (a)</b> , Part A: Administration.
<b><i>Behaviour in fire</i></b>	<p>The Kolorcote-T Wall Coating is regarded as non-combustible when applied in accordance with the manufacturer's instructions to the substrates listed in Table 1.</p> <div style="border: 1px solid green; padding: 5px; width: fit-content;"> <p><b>SANS 10400</b> <i>The application of the National Building Regulations</i></p> </div>	<p>The Kolorcote-T Wall Coating is deemed to satisfy requirements of regulation <b>T1(d)</b>, Part T : Fire protection, as regards spread of fire and generation of smoke.</p> <p>Deemed-to-satisfy rule <b>TT5.2 (c)</b>, <b>SANS 10400</b> <i>The application of the National Building Regulations</i>, has been met.</p>

**Table 3: Assessment**

Aspects of performance	Opinion of Agrément South Africa	Explanatory notes
<b><i>Durability</i></b>	<p>Satisfactory, where the coating system is applied to properly prepared wall surfaces of the type specified in Table 1 and particular attention is given to curing the coats.</p> <p>Kolorcote-T Wall Coating should perform satisfactorily for 4 to 6 years before requiring recoating.</p>	<p>Kolorcote-T Wall Coating is a cement-based coating, with low flexibility. With minor movement of the substrate, cracks can occur.</p> <p>Where minor cracks do occur, recoating with Kolorcote-T Wall Coating will improve the weather resistance of the coated wall.</p> <p>The wall coating can withstand washing with water provided that a soft brush or broom is used.</p> <p>Where cementitious water-based coatings such as Kolorcote-T Wall Coating are applied to concrete masonry units that contain soluble salts, efflorescence may occur after exposure to water.</p> <p>This assessment relates to resistance to weathering. Mechanical damage or frequent abrasion to the Kolorcote-T Wall Coating may result in a requirement for recoating at more frequent intervals.</p>

<b>Resistance to abrasion</b>	<p>The resistance of the Kolorcote-T Wall Coating is satisfactory.</p> <p><b>ASTM D 2486- 99:</b> <i>Scrub resistance of Interior Latex Flat Wall Paints.</i></p>	<p>Agrément's assessment is based on the inspection of walls coated with this wall coating and on the results of tests in accordance with <b>ASTM D 2486- 99.</b></p>
<b>Bond</b>	<p>The wall coating bonds well to correctly prepared substrates as listed on Page 1.</p> <p><b>MOAT No 33:1986</b> <i>The assessment of Masonry Coatings</i></p>	<p>Tested in accordance with the method described in the Method of Assessment and Testing: <b>MOAT No 33: 1986.</b></p> <p>Surface preparation, application and curing are important and must be carried out in accordance with Part 3 of this certificate.</p>
<b>Water-vapour permeability</b>	<p>Satisfactory</p>	<p>Tested in accordance with the method described in the Method of Assessment and Testing: <b>MOAT No 33: 1986.</b></p> <p>The wall coating was tested to be sufficiently water-vapour permeable not to cause interstitial condensation.</p>
<b>Colour stability</b>	<p>Satisfactory</p>	<p>Colour stability of the Kolorcote-T Wall Coating will be adequate. However, the coating can be stained by water run-offs and fading can occur if lime in the substrate leaches out.</p> <p>Appropriate roof detailing which ensures that rain water will be shed clear of coated walls will minimize this problem.</p> <p>There may be slight discolouration in rainy conditions, but the colours will return to their original shades when the coatings dry.</p> <p>Local staining can occur if impurities are present in the substrate and these leach out over time.</p>
<b>Resistance to rainwater penetration</b>	<p>Satisfactory</p>	<p>The joints of unplastered concrete block walls and unplastered brick walls are vulnerable and must be checked to ensure that they are suitable for the application of Kolorcote-T Wall Coating.</p>
<b>Quality management</b>	<p>The certificate holder's quality system complies with Agrément South Africa's requirements. Properly applied, it will ensure that quality of Kolorcote-T product is consistently maintained.</p>	<p>Agrément South Africa's requirements are based on <b>SANS 9001: 2000</b></p> <p><b>SANS 9001: 2000</b> <i>Quality management systems – Requirements'</i></p>

## **PART 3: TECHNICAL DESCRIPTION**

### **General description**

Kolorcote -T Wall Coating is a single-coat cement-based, textured wall coating for use on sound, suitably prepared internal and external wall surfaces as follows:

- Cast-in-situ concrete/ precast concrete
- concrete bricks
- hollow concrete blocks
- sand cement plaster
- sand cement bagged finishes.

The restrictions on the use of a single coat of Kolorcote-T listed on Table 1 will not apply where two coats are used to coat the external wall surfaces.

Kolorcote-T Wall Coating is available in ten different colours. It is supplied as a powder in 25 kg and 40 kg polypropylene bags with a plastic liner. It is mixed on site with potable water in accordance with the instructions set out in the certificate holder's data sheets. The resultant thixotropic mixture is applied to the prepared wall surface using a block brush or broom.

### **Manufacture**

The manufacture of Kolorcote-T Wall Coating is a batch process involving the mixing of selected ingredients and colouring additives in a shear mixer. After pre-weighing, the product is bagged in 25 kg or 40 kg polypropylene bags with a plastic liner

## **Application of coatings**

### **General**

The certificate holder deploys demonstration teams on each site, prior to commencement of a project. These teams train personnel in the application of the wall coating.

During the course of each project, team members carry out regular visits to sites for supervision and to ensure that correct application and curing procedures are adhered to.

### **Surface preparation**

New concrete brick or hollow block walls are checked to ensure that the horizontal and vertical mortar joints are properly filled with mortar to ensure that they are suitable for the application of the coating.

Where necessary, dust and adhering mortar are removed and the joints worked off smoothly with wet mortar, making use of a sponge.

All wall surfaces are checked to ensure that they are free of dust, dirt, oil, lichen and loose material. They are wire-brushed and washed down where necessary. Any organic growth is removed and spores killed by scrubbing with a biocide. Dead growth is removed and the surface rinsed well with potable water.

Surfaces previously treated with lime wash or where the paint is loose and flaky are scraped to remove any loose material and wire-brushed and washed down to provide a sound base before application of the Kolorcote-T Wall Coating.

### **Application**

External walls must not be coated if rainfall is expected or if there is a possibility of temperatures dropping below 5°C.

Kolorcote-T Wall Coating is mixed on site in a suitable container in accordance with instructions set out in the certificate holder's data sheets. To prevent segregation of particles, it is essential to use the whole bag. 14 litres of potable water is added to one 40 kg bag of Kolorcote-T powder and this is thoroughly mixed to a smooth, creamy consistency before application.

The prepared wall surface is wetted with water and allowed to drain off until there is no free water on the surface. The Kolorcote-T Wall Coating must be applied liberally, using a broom or soft brush and within one hour of mixing.

Kolorcote-T Wall Coating is cured by wetting the surface with a fine water spray on three occasions at regular intervals throughout the day following application.

Kolorcote-T Wall Coating coverage is approximately 35 m<sup>2</sup> to 40 m<sup>2</sup> per 40 kg bag, depending on the surface characteristics.

Where a two-coat application is desired, the second coat of Kolorcote-T is applied and cured as described above. The second coat should be applied on the day after the application of the first coat. Curing of both coats is required if the second coat is not applied by the following day.

### **Storage and shelf life**

Kolorcote-T must be protected from becoming damp during storage in the factory, in transit and on site (stored off the floor and horizontally on wooden slats) and the packaging must be kept intact until the product is to be applied.

The shelf life of the packaged Kolorcote-T when kept in unopened polypropylene bags with a plastic liner is 6 months. Each package is marked with the shelf life of the product and a use-by date.