METZ 16VE-TOP COAT
VINYL ESTER COATING

www.metz.net.au

DESCRIPTION:

Metz 16VE-Top Coat is a novolac based vinyl ester coating system. It is specially formulated to provide outstanding chemical resistance. It is designed to be used by itself as a thin chemical resistant coating or as a top coat for other Metz vinyl ester systems.

FEATURES AND BENEFITS:

- **Outstanding Chemical Resistance**
  Resistant to high concentrations (50%) of Nitric Acid, strong oxidizing agents solvents and bleaches. Refer to Metz Chemical Resistance Chart.
- **Easy application using roller or brush**
- **Rapid Cure**
  Fast setting, minimises downtime
- **Excellent Adhesion**
  Bonds to many substrates, including properly prepared concrete and mild steel.
- **Quality Accreditation**
  The management system governing the development and manufacture of this product is proudly ISO9001:2015 certified.

RECOMMENDED:

To protect concrete and steel against chemical and mechanical attack in:

- Pulp & Paper Mills
- Acid Plants
- Oil refineries
- Fertiliser Plants
- Steel Mills
- C.I.P. rooms in food and beverage plants
- Solvent Extraction Processes

NOT RECOMMENDED:

For exposure to some strong inorganic acids and solvents. Refer Metz Chemical Resistant Chart.

PHYSICAL PROPERTIES: (Typical Values)

Density g/cm^3:	1.0 to 1.2
Adhesion to concrete (ASTM D7234):	>1.5MPa (Concrete failure)
Max. Continuous Service Temp.:	120ºC

Note: For continuous temperatures over 80ºC contact Metz re primer requirements.

COVERAGE:

Theoretical quantities (allow for wastage)

Metz VE Primer (if required):	0.2 to 0.3 kg/m^2 depending on absorption of substrate. Use primer when not topcoating Metz 16VE series products.
Metz 16VE Top Coat	0.2 to 0.3kg/m^2 for WFT of 250 microns

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INSTRUCTIONS FOR USE

1. Temperature of Working Area

For optimum results, maintain a temperature of 15 - 30ºC on air, substrate and components during application and curing.

At temperatures below 15ºC the application becomes more difficult and curing is retarded.

At temperatures above 30°C, initial set may take place too rapidly. This difficulty can be overcome by mixing in a cooler area or by cooling the components.

Note: Materials should be kept as cool as possible.

2. Surface Preparation

All surfaces must be clean and free from all contaminants which may inhibit bond. For best results, surfaces should be dry. Concrete on grade should utilise a waterproof barrier beneath the slab.

i) *New Concrete* - New concrete should have attained a compressive strength of 20 MPa minimum. Surface must be free from form oils and curing compounds. The surface should be a fine wood float finish and be 28 days old. Light abrasive blast, high pressure waterblast or grind to remove laitance and provide uniform textured surface. Surface moisture content should be less than 10%.

ii) *Old Concrete* - Concrete must be sound. Remove laitance, loose deposits, old paints, protective coatings and attacked or deteriorated concrete. Chemically clean surface to remove any contaminants. All structural cracks should be repaired, all slopes re-established and all voids filled. Smaller voids can be repaired with Metz 16VE-Plaster.

iii) *Metal* - Abrasive blast to AS1627.4 Class 3 for immersion conditions and to Class 2 1/2 minimum for all other conditions, with a minimum blast profile of 50 microns. Check surfaces for soluble salt contamination.

3. Mixing

a) *Mixing Equipment*

Mechanical mixing is recommended. A low speed mixer or a heavy duty drill with an appropriate mixing paddle are suitable. High speed mixers should not be used.

b) *Mixing Proportions*

VE Primer (if required)	
VE Primer Liquid	1 x 3.2kg
VE Primer Hardener	1 x premeasured pack
16VE Top Coat	
16VE Top Coat Liquid	1 x 4.2kg
16VE Hardener	1 x premeasured pack

c) *Mixing Procedure* - Remix liquid prior to use for 2 minutes. Mix liquid and hardener together thoroughly for 3 minutes.

At end of the mixing period material should be uniform in colour. Material which has begun to set must be discarded. Do not add any solvent, additive or adulterant to any component, or to the mixed material.

d) *Pot Life*

at 20°C 30 minutes

Note: Increase in temperature will decrease pot life, as will leaving mixed material in a large mass.

e) *Clean Up* - Mixing equipment, tools etc can be cleaned with acetone or Metz Cleaner prior to initial set.

Ensure you have the latest mixing instructions, refer www.metz.net.au for latest data sheet version.

4. Installation

(i) Metz VE Primer (if required) - Apply to prepared surface, then back-roll with short nap roller. Ensure total area is covered and surface is completely sealed. Apply more primer if necessary to seal surface. Allow primer to dry, then inspect surface for voids. Fill any voids with Metz 16VE Plaster.

(ii) Metz 16VE-Top Coat - Apply in even thickness with short nap roller. Apply 1 coat only. Do not overcoat.

Recoat times at 20°C

Minimum: 2 hours Maximum: 6 hours

5. Setting/Curing:

Setting Time	*Full Cure*
at 20°C 6 hours	*at 20°C* 3 days

Do not allow water, chemicals or traffic on the material surface for a minimum of 24 hours. For harsh chemical or physical environments ensure full cure occurs.

6. Storage

16VE liquid and hardener should be stored at temperatures below 25°C and should be kept away from all sources of heat for maximum shelf life.

Store in a cool, dry place out of direct sunlight. Under these conditions shelf life is 6 months minimum for unpromoted liquid and for hardener. Promoted liquid has a reduced shelf life and should be used within 1 month.

Liquid and hardener should be stored separately.

Liquid is classed as DG Class 3- Flammable Liquid and hardener is classed as DG Class 5.2 –Organic Peroxide. All precautions associated with these classes should be observed.

7. Safety Precautions

Liquid and Hardener - use Chemical goggles, PVC gloves and barrier cream. Avoid contact with skin and eyes. For full safety precautions refer to Material Safety Data Sheets for all components.

Always ensure you have the latest data sheet version, refer www.metz.net.au

1. The customer must comply strictly with the instructions contained in this product data sheet. Metz is not responsible for any advice or variations to this data sheet which are not confirmed in writing.
2. If the customer has a claim against Metz in respect of any product supplied to the customer by Metz whether due to a fault in the product or the negligence or breach of contract by Metz or for any other reason:
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   b) Metz may at its option replace the defective product free of charge to the customer or refund all payments made to it by the buyer in respect of the defective product; and the maximum liability of Metz shall be the cost of replacing the defective product.

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METZ SPECIALTY MATERIALS PTY LTD

A.C.N. 140 636 639

15A Stanton Road, Seven Hills NSW 2147
Facsimile: (02) 9671 4292 Phone: (02) 9671 1311

6 University Place, Clayton North, VIC 3168
Facsimile: (03) 9561 6944 Phone: (03) 9561 6144

Unit 16, 42 Smith Street, Capalaba QLD 4157
Facsimile: (07) 3823 5552 Phone: (07) 3823 5555

Distributor