

# ShaliKote<sup>®</sup> NES AC

2K Epoxy Phenolic Anti-Carbonation / Anti-Corrosive Protective Coating



STP Limited

## Description

**ShaliKote<sup>®</sup> NES AC** is two component novolac based epoxy system for protection of steel / concrete structures against splash and spillage of corrosive chemicals and solvents at higher temperature. It is an excellent coating system for secondary containment, solvent storage, pump pads, trenches, bridges and other high exposure zones.

## Characteristics - Physical

Colour	Gray / Reddish Gray	Service Temp. - Dry	90 °C
Volume Solid, %	60 ± 2	Pot Life at 25 °C	45 mints 500 gm mix
Mixing Ratio	2:1 by volume	Drying Time	1 hr at 80% RH
Spreading Rate,	3 m <sup>2</sup> / L 200 micron DFT	Scratch Hardness	> 1.5 kg
		Re-coat Time	6 - 10 hrs

## Characteristics - Technical

Property	Method	Result
Shore Hardness D, min	ASTM D 2240	55 - 60
Adhesion N/mm <sup>2</sup>	ASTM D 4541	> 2.6
Tensile Strength, N/mm <sup>2</sup>	ASTM D 2370	> 15.5

## Application

- Excellent anti-corrosive coating for all steel and concrete structures exposed to acid / alkali fumes emanating at high temperature, like in Ammonium Sulphate / Annealing / Acid Plants.
- Excellent anti-carbonation coating.
- Leather processing units, fertilizer plants, are some of the areas where **ShaliKote<sup>®</sup> NES AC** will work efficiently.

## Advantages

- Excellent resistance to acid and alkali vapours.
- Low VOC material.
- Bonds well at low temperature & humidity.
- Short re-coating time.
- Good breathability.

## Application Methodology

### ➤ Surface Preparation

- Remove dust, flakes, oil, grease or other foreign particles by jet or dry air and clean the surface to make it smooth before applying **ShaliKote<sup>®</sup> NES AC**. Surface of steel must be prepared as per the NACE (National Anti-Corrosion Engineers) or SSPC (Steel Structure Protection Council) guidelines.
- For non immersion purpose near white surface is adequate while for immersion service white metal surface is desired. Surface of steel and concrete must be free from dust, oil, soap and greasy material.

### ➤ Material Preparation

- Stir drums of each component thoroughly for homogeneousness with hand drill type stirrer to ensure dispersal of any settled filler for about 5 minutes for a 15 L pack. Then mix

component A and Component B in the ratio of 2 : 1 by volume and stir for homogeneousness at slow speed.

#### ➤ Application of Material

- Prime the surface by ShaliPrime Penetration for concrete surface and ShaliPrime Zn Ph for metal surface.
- Allow the primer to dry completely before applying **ShaliKote® NES AC**.
- Place the spiral blade at the bottom of the container before starting the mixer. This will help avoiding inducting air into the mass. Slowly move the stirrer head up to the surface while stirring. Do not remove the blade while still spinning. This procedure is continued for 5 minutes up and down to have a homogeneous mixing. Allow the mix 10 minutes, then stir again gently with a hand stirrer to ensure uniformity and begin application.
- Apply **ShaliKote® NES AC** by brush or spray with medium or short nap squeegee rollers.

#### Health & Safety

- Avoid contact with skin / eyes, and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

#### Packing

Available in 4.5 L and 15 L unit pack with 2 components.

#### Storage

Keep in cool and dry place, under shed, away from heat.



**STP's Businesses**  
Waterproofing & Insulation  
Road Surfacing  
Pipeline Coating  
Protective / Anti-Corrosive Coating  
GARA (Grouts & Admixtures)  
Sealant & Additives  
Repairs & Rehabilitation  
Epoxy Flooring

