



# TECHNICAL DATA SHEET

## DEHYDRATINE® 75, 85, and 95 Emulsified Asphalt Dampproofing Compounds

07110  
DAMP-PROOFING  
THERMAL AND MOISTURE PROTECTION

TAMMS INDUSTRIES  
JANUARY 2000 (Replaces 5/99)

1. **DESCRIPTION:** DEHYDRATINE 75, 85, 95 are water based compounds designed to damp proof concrete and masonry. The DEHYDRATINE products are VOC compliant materials and are effective above and below grade. DEHYDRATINE 75 is highly effective and is easily applied by trowel or spray. DEHYDRATINE 85 is fiber reinforced but can still be sprayed. DEHYDRATINE 95 contains longer fibers and is formulated for trowel application.

5. **SURFACE PREPARATION:** Surface must be structurally sound, clean, free of dust, dirt, mortar, residue curing and parting compounds, and other contaminants. Use of wire brushes, sandblasting or other mechanical means is recommended. Prior to application, surface defects, voids, joints or cracks must be properly sealed or filled. Dry surfaces should be dampened with water and kept damp before application.

2. **USES:** DEHYDRATINE products are used to damp-proof concrete and masonry. DEHYDRATINE 75 and 85 are also effective damp proofing products on roofing materials such as fiber glass fabric and metal (see Roofing under Application Techniques). Both DEHYDRATINE 75 and 85 can be used over most metals to protect against rust and corrosion. Both products have good weathering and abrasion resistance. Since all the DEHYDRATINE products are clay type emulsions, they resist flow or sag even when exposed to high ambient temperatures. Other advantages include:

6. **MIXING INSTRUCTIONS:** DEHYDRATINE 75, 85, and 95 do not normally require mixing.

- They do not contain solvents.
- They do not present a fire hazard and are environmentally safe.
- They adhere tenaciously to damp or "green" surfaces.
- They breathe to allow water vapor to escape and reduce blistering.
- They are flexible and will not crack as a result of normal contraction & expansion.
- They are asbestos free.

7. **APPLICATION TECHNIQUES:** DEHYDRATINE 75: Apply by soft bristle brush or suitable spray equipment at a rate of not more than 33 square feet per gallon in a single coat. DEHYDRATINE 85: Apply by soft bristle brush or suitable spray equipment at a rate of not more than 25 square feet per gallon in a two-coat application (50 square feet per gallon per coat), or not more than 33 square feet per gallon in a single coat. When two coats are applied especially in hot weather when it may be difficult to keep the surface damp, the first coat may be diluted with up to 10% of clean, cool water. The first coat should be dry to the point where it is tacky to the touch before the second coat is applied: DEHYDRATINE 95: Apply by trowel at a rate of not more than 25 square feet per gallon, which results in a 1/16" film. Two coats may be applied for a total thickness of 1/8", if desired.

3. **COMPOSITION AND MATERIAL:** DEHYDRATINE 75, 85 and 95 are formulations derived from mineral colloid asphalt base clay emulsions which utilize a water carrier. These products are "breather" type compounds which meet or exceed the following specifications.

**Backfilling** - Do not backfill until the film has dried (at least 24 to 48 hours after application). Backfilling should be accomplished as soon as possible (after 24-48 hours) to protect the film from damage by outside sources. Place backfill with care so that the film will not be ruptured.

<u>DEHYDRATINE</u>	<u>75</u>	<u>85</u>	<u>95</u>
ASTM D-1227 Type III	X		X
ASTM D-1227 Type IV		X	
ASTM D-1187 Type I			X

**Spraying** - Use an air operated piston pump (such as Graco) of 9:1 ratio, and a pole gun with a 3/32" tip (for Dehydratine 75) or 1/8" to 1/4" tip (Dehydratine 85). A 3/4" ID material hose and a 1/2" ID air hose from the pump to the gun is preferred for most applications.

**Roofing** - DEHYDRATINE 75, 85 and 95 can be used with fiber glass fabric for built-up waterproofing and roofing applications.

DEHYDRATINE 75, 85 and 95 comply with national AIM VOC regulations. VOC content of each is less than 50 grams per liter.

DEHYDRATINE 75 has excellent rust inhibiting qualities and can be applied as a coating over metal roofs. It has good weathering properties and resistance to corrosive fumes and smoke.

4. **COLOR:** DEHYDRATINE 75, 85 and 95 are black.

DEHYDRATINE 85, because of its toughness and abra-

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sion resistance, can be used as the final coating on most cold process roof, especially on low slope roofs. It is particularly effective in unusually severe moisture conditions, such as valleys, low spots, etc.

8. **COVERAGE:** The following coverage rates are approximate and for estimating purposes only. Surface temperature, porosity and texture will determine actual material requirements:

	Coverage sq.ft./gallon		
	DEHYDRATINE 75	DEHYDRATINE 85	DEHYDRATINE 95
One Coat Application (not more than)	33	33	25
Two Coat Application			
1st coat	50	50	50
2nd coat	50	50	50

9. **CLEAN-UP INSTRUCTIONS:** Clean tools or equipment with mineral spirits immediately following use. Clean drips while still wet. DEHYDRATINE 75, 85, and 95 will not harm glass or metal by etching, pitting, or staining; however, it will leave a residue which is easily removed with a clean cloth and petroleum based paint thinner. Stronger solvents may be required to remove the residue if allowed to remain on the surface. Once final set has occurred, DEHYDRATINE 75, 85, and 95 may be impossible to remove from surfaces. Flush rubber surfaces with water immediately following contact with DEHYDRATINE 75, 85, and 95.

10. **CAUTIONS:** Do not apply DEHYDRATINE 75, 85, and 95 to surfaces that are to receive a concrete overlay or topping, or be sealed with another type of sealer. Mask or protect the sides of joints that are to receive DEHYDRATINE 75, 85 and 95. Applications of Dehydratine at higher coverage rates than recommended above may result in improper drying. Do not allow to freeze.

11. **ENVIRONMENTAL AND SAFETY PRECAUTIONS: Industrial Use Only.** Use in a well ventilated area. Indoors: open all doors and windows, and use an exhaust fan. Irritating to skin. Avoid splashing into eyes and prolonged contact with the skin. In case of eye contact, flood eyes repeatedly and call a physician immediately. **DO NOT RUB EYES.** Wash hands with soap and water immediately after use, and before smoking or eating. If ingested, do not induce vomiting. Call a physician immediately. **KEEP AWAY FROM CHILDREN AND ANIMALS.** Protect shrubbery, plants, grass, rubber, and asphalt from spills or overspray during application. Consult Material Safety Data Sheet for complete product safety information.

12. **PACKAGING:** 5, and 55 Gallon DOT approved containers. (Metric: 18.9 and 208.2 liters)

**Storage:** Cool, dry, well ventilated area at temperatures of 40°F-90°F. Do not allow to freeze.

**Shelf Life:** 1 year properly stored.

**Freight Class:** Class 55 (Not Red Label).

13. **TECHNICAL SERVICE:** For application procedures or surface conditions not specified above, please contact:

TAMMS INDUSTRIES  
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800-862-2667 FAX: 815-522-2323  
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