



Technical Datasheet

IZOZEN® POLYMER-MODIFIED SEALER (PMS)

Asphalt Based Pavement Sealer

Description

IZOZEN® POLYMER-MODIFIED SEALER (PMS) is an environmentally friendly mineral filled asphalt emulsion pavement sealer blended with polymers and special surfactants for superior adhesion, flexibility, and durability. IZOZEN® POLYMER-MODIFIED SEALER (PMS) is a higher solids, faster drying pavement sealer designed to protect and beautify asphalt pavement. IZOZEN® POLYMER-MODIFIED SEALER (PMS) is formulated to be job-mixed with aggregate.

IZOZEN® POLYMER-MODIFIED SEALER (PMS) meets ASTM D8099/D8099M-17 Standard Specification for Asphalt Emulsion Pavement Sealer. PMS also meets FAA Item P-623 specification for Emulsified Asphalt Spray Sealcoat.

Fields of application

IZOZEN® POLYMER-MODIFIED SEALER is ideal for all types of pavement surfaces including parking lots, shopping malls, airports, driveways, roadways and more.

Chemical & Physical Analysis

ASTM	Test Description	Result
D5	Penetration of Bituminous Materials-Base Asphalt	12-45 Pen
D6937	Density of Emulsified Asphalt	1 -1.3 kg/l
D6930	Settlement and Storage Stability of Emulsified Asphalts	20% max./24 hr.
D113	Ductility of Bituminous Materials-Base Asphalt	5-15 cm
Std. %	Percent Polymer Solids to Asphalt by wt.	2% min.
E70	PH of Aqueous Solutions with Glass Electrodes	6-10 PH
D36	Softening Point of Emulsion Residue (Ring and Ball Apparatus)	> 200° F
D562	Viscosity using a Stormer-Type Viscometer	60-110 KU
D4060	Abrasion Resistance- Taber Abraser Dry Method	< 1% Loss
D522	Mandrel Bend Test of Attached Coatings	No Cracking
D870	Water Resistance of Coatings using Water Immersion	No Delamination
D6904	Resistance to Wind-Driven Rain	No Delamination
D4585	Water Resistance of Coatings Using Controlled Condensation	No Delamination
D3910-6.4	Wet Track Abrasion Test	< 15 g/ft² Loss
D1735	Water Resistance of Coatings Using Water Fog Apparatus	No Delamination

Directions for use

1. SUBSTRATE PREPARATION

- The substrate must be clean, free of oil or grease, loose material, dust, etc.
- Pavement surface repairs should be made with a suitable hot or cold asphalt mix. Cracks should be filled with IZOZEN® hot pour or cold applied crack fillers.

2. METHODS

Properly mixed IZOZEN® POLYMER-MODIFIED SEALER (PMS) shall be applied by mechanical squeegee/brush equipment or spray equipment capable of spraying coatings with sand. Equipment shall have continuous agitation or mixing capabilities to maintain homogenous consistency of mixed material throughout the application process. Truck mount or self-propelled squeegee/brush equipment shall have at least 2 squeegee or brush devices (one behind the other) to assure adequate distribution and penetration of mixed PMS into bituminous pavement. Hand squeegees and brushes and brushes shall be acceptable in areas where practicality prohibits the use of mechanized equipment.

3. MIXING PROCEDURES

For optimum results, IZOZEN® POLYMER-MODIFIED SEALER (PMS) Pavement Sealer shall be mixed in accordance with the following mix design (based on 100 gallons for ease of calculation):

PMS 100 gallons
 Sand* 200-400 lbs.
 *(40-70 mesh)

4. IMPORTANT

The above mix design is a typical recommendation. Alternative mix designs may be substituted to account for local pavement conditions.

5. APPLICATION

For optimum performance and durability apply a minimum of two coats of properly mixed PMS. A third coat of mixed PMS may be applied to high traffic areas such as entrances, exits, and drive lanes for added durability. Allow each coat to dry thoroughly before applying successive coats. Allow final coat of PMS to dry for 24 hours prior to opening to vehicle traffic.

D2247	Water Resistance of Coatings in 100% Relative Humidity	No Delamination
D4541	Adhesion Strength over Asphalt Pavement	> 200 PSI
D2939-5	Uniformity of Emulsified Bituminous Coatings	PASS
D2939-7	Weight per Gallon	9-11 lbs./gal
D2939-8	Residue by Evaporation, %	40-60 %
D2939-13	Drying Time- 50% humidity, 73.4 ± 3.6°F	2-6 Hrs.
D2939-26	Resistance to Impact- No Chipping, Cracking or Delamination	PASS
D2939-5	Uniformity of Emulsified Bituminous Coatings	PASS
D2939-10	Ash Content of Residue, %	40-60%
D2939-14	Resistance to Heat- No Blistering, sagging or slipping	PASS
D2939-22	Flexibility- No Cracking or Delamination	PASS
D2939-22	Wet Film Continuity	PASS
D2939-25	Resistance to Kerosine (Fuel Resistance)	PASS
D2939-26	Resistance to Impact- No Chipping, Cracking or Delamination	PASS
D2939-27	Resistance to Impact After Accelerated Weathering	PASS
D95	Water Content, %	40-60%
D2172	Asphalt Content by Weight, %	Min. 16%
D4799	QUV UV Aging-1,000 Hours	No Color Fade
D3359	Measuring Adhesion by Tape- No More than a Trace of Peeling	PASS
VOC	Determination of Volatile Organic Compounds (VOC) in various Coatings	< 10 g/l
PAH Content (%)	Polycyclic Aromatic Hydrocarbon Content (Percentage)	Less than onetenth of 1% (< .10%)

Packaging

IZOZEN® POLYMER-MODIFIED SEALER (PMS) is available in 5-gallon pails, 55-gallon drums and bulk containers.

IZOZEN® CHEMICALS (PRIVATE) LIMITED

Office No. 17, Sun Rise Arcade, Near DHA Phase II, Gate II, Main G.T Road, Islamabad, Pakistan 44000
 Phone No. 0092 (51) 441 9497
 Email: information@izozen.com
 Web: www.izozen.com

MANUFACTURING UNIT

Plot No. 38, Street NS-1, Rawat Industrial Estate, Islamabad, Pakistan, 45900
 Email: information@izozen.com
 Web: www.izozen.com

6. APPLICATION RATE OF MIXED MATERIALS

Apply properly mixed PMS (PMS and sand) and at a rate of 70-82 square feet (7.77 to 9.11 square yards) per gallon. Application rates may vary due to pavement porosity and method of application.

7. LINE STRIPING AND TRAFFIC MARKINGS

Use IZOZEN® Acrylic Traffic Paint (ATP) for line striping and traffic markings.

ESTIMATING MATERIAL REQUIREMENTS

- One gallon of IZOZEN® POLYMER-MODIFIED SEALER (PMS) will cover approximately 85-95 square feet (9.4 to 10.5 square yards) per coat when properly mixed and applied.

Remarks

IZOZEN® POLYMER-MODIFIED SEALER (PMS) shall not be applied when temperature is expected to drop below 50°F at any time within a 24 hour period after application.

- Consult the directions for safe use and precautions written on the packaging before use.

PRECAUTIONS

Both surface and ambient temperature shall be a minimum of 50°F and rising during PMS application. Do not apply if temperature is expected to drop below 50°F within a 24 hour period after PMS application.

IZOZEN® Health and Safety Message

- Always wear safety goggles, Mask, Helmet when working with hazardous materials.
- Follow safety procedures at all times when using power tools.
- Make sure your work area is tidy and free of trip hazards.
- Watch where you're walking – don't run in the workplace!
- Always use the appropriate lifting technique when moving heavy objects.
- Keep jewelry and other loose objects away from machinery.
- Don't eat or drink near hazardous materials.
- Report unsafe conditions immediately to your supervisor.
- Wear the correct clothing for the job – no loose clothing or jewelry!
- Take regular breaks and stay hydrated while working.
- Always be aware of your surroundings.
- Always use personal protective equipment when working with chemicals.



The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Research and Development Department of our company and on results from long-term applications of the product in practice. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the applications are beyond the control of our company. Therefore the user is responsible for confirming that the chosen product is suitable for the envisaged application. The present edition of this technical datasheet automatically cancels any previous one concerning the same product. |