

METZ SAUEREISEN 89

HIGH TEMPERATURE MEMBRANE



DESCRIPTION:

Metz Sauereisen 89 is a single component, asphaltic mastic. The compound is spray-applied by airless equipment and results in a flexible coating with superior temperature and chemical resistance properties. Metz Sauereisen 89 is recommended when substrate movement from temperature change and other causes will be encountered. It resists acids, alkalis and salts associated with flue gas environments. The product is not recommended for oil, grease and solvents. The product is formulated as an impervious membrane for use under corrosion resistant monolithic linings or acid-resistant brick masonry and on metal or concrete substrates. Metz Sauereisen 89 maintains excellent elasticity and adhesion over a temperature range of -50°C to +150°C.

FEATURES AND BENEFITS:

- **Excellent Chemical Resistance**
Outstanding chemical resistance to acids and alkalis. Refer Metz Chemical Resistance Chart.
- **Long-term Flexibility**
Recommended for use from -50°C to +150°C.
- **Easy to apply**
Can be topcoated after 24 hours.
- **Use on Concrete or Steel**
Suitable for application as a membrane on steel or concrete substrates.
- **Durable**
Retains excellent elasticity.
- **Waterproof**
Very low permeability.

RECOMMENDED:

As a membrane for brick or monolithic linings in -

- Flue gas environments
- Chimneys
- Waste acid collection sumps
- Floors and drains in acid storage areas.

NOT RECOMMENDED:

- Environments subject to oil, grease and solvent exposure.
- Generally not recommended for continuous liquid immersion.

PHYSICAL PROPERTIES:

(Typical Values)

Moisture vapour permeability, per. inch	0.003
Resistance to abrasion by sandblast	excellent
Maximum service temperature	150°C
Solids (by weight)	69%
Flash point, T.O.C., minimum	38°C
Density (approximate)	1.07 kg/litre

Physical properties were determined on specimens prepared under laboratory conditions using applicable ASTM procedures. Actual field conditions may vary and yield different results; therefore data are subject to reasonable deviation. Data should not be used for specification purposes.

COVERAGE:

 Theoretical quantities (allow for wastage)

Apply in two approximately equal coats of 1.5mm each, building to a wet film thickness of 3mm. Each 18.9 litre pail will cover approximately 6 sq.m. at the recommended wet film thickness of 3mm.



Acid Proofing & Industrial Flooring • Specialty Ceramic Tiles



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INSTRUCTIONS FOR USE

1. Temperature of Working Area

Maintain a temperature of 15°C-30°C on substrate, Metz Sauereisen 89 material and air during application. Dew point of air must also be monitored and substrate temperature must be maintained at least 3°C above dew point.

2. Surface Preparation

a) Steel

Surfaces should be dry and free of grease, dust, loose rust and scale. Metal surfaces should be abrasive blasted to AS1627:4 Class 2½ minimum. Priming is not required when using Metz Sauereisen 89 over metal surfaces.

b) New Concrete

Surfaces should be free of laitance, oil, grease and other residue. Concrete shall be at least 14 days old, be dry and have attained at least 20MPa compressive strength. All voids should be filled with an approved repair material.

c) Old Concrete

Surfaces should be free of oil, grease, water and other contaminants. This can be achieved by chemical cleaning. Sandblast or hydroblast surfaces to remove attacked concrete and obtain a firm surface. Voids should be filled with an approved repair material.

3. Installation

Prior to spraying Metz Sauereisen 89, it should be mechanically remixed. Metz Sauereisen 89 should be applied by airless spray equipment. The following airless spray equipment (or equal) is recommended for application of Metz Sauereisen 89 High Temperature Membrane.

Mastic Pump - Graco 56:1 King Piston Primed Airless, Model 236-477. Remove the filter from the surge tank. Other pumps may be suitable depending upon jobsite requirements. Consult Metz for information.

Mastic Gun: Graco HydroMastic Gun airless, Model 206-718.

Gun Tip: Graco Reverse-a-Clean tip 1.1mm (0.045") orifice, Model GHD-745.

Material hose: 1.8m (6 ft) whip end, 12.5mm ID (½"); working pressure 34 MPa (5,000 psi), 110 MPa (16,000 psi) burst.

Material hose: 15m (50 ft) overall, 19mm (¾") ID; working pressure 27.5 MPa (4,000 psi), 110 MPa (16,000 psi) burst.

Material hose: 30-45m (100-150 ft) overall, 25mm (1") ID; working pressure 20 MPa (3,000 psi), 83 MPa (12,000 psi) burst.

Air compressor: 3 cu.m. (100 cu. ft.) per minute at 0.7 MPa

(100 lbs psi) minimum.

Air hose from compressor: 20-25mm (¾" to 1") ID; 30m (100ft) maximum length to mastic pump.

Store mastic in 15°C to 30°C warehouse for at least 48 hours before spraying. To prevent sagging on vertical surfaces, the required coverage shall be built up in two approximately equal coats. Application should be done with a 50% overlap in a "cross hatch" sequence to eliminate the possibility of pin holes and to assure complete coverage. Second coat shall be applied 2 hours after first.

Metz Sauereisen 89 should be tested for pinholes after a 24 hour cure at 20°C. Consult Metz for recommended equipment. To repair pinholes, lightly sand the surface around the pinholes to break up the film. 89 should then be applied by trowel or spray in a uniform coating.

Clean Up

Equipment clean up is by kerosene or mineral spirits within 1 hour after use and after each day's use.

4. Setting/Curing

Metz Sauereisen 89 cures to a soft, flexible, tack-free film in 24 hours at 20°C to 30°C. After curing for 24 hours, the monolithic or brick lining may be installed over the membrane. Protect installation site from moisture until tack-free.

5. Coverage

Each 18.9 litre pail will cover approximately 6 sqm at the recommended wet film thickness of 3mm.

6. Shelf Life

Metz Sauereisen 89 has a shelf life of one (1) year when stored in unopened, tightly sealed containers in a dry location at 20°C. If there is doubt as to the quality of the material, consult Metz.

7. Safety Precautions

Metz Sauereisen 89 is combustible. At all times until cured, the mixture must be protected from flame and extreme heat. Do not use near flame, spark or excessive heat. Do not weld or burn on equipment lined with Metz Sauereisen 89.

During application Metz Sauereisen 89 should be used with adequate ventilation. Prolonged and repeated breathing of concentrated vapor is harmful and should be avoided. Provide positive ventilation to avoid collected vapors, especially in low-lying areas.

For full safety precautions refer to the Material Safety Data Sheet for this product.

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:
 - a) Metz shall not be liable for any loss of damage including consequential loss or damage or loss of profits arising thereby;
 - 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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