

Temashield EMP 172

DESCRIPTION

A two component, high solids, epoxy zinc phosphate MIO high build primer/finish.

PRODUCT FEATURES AND RECOMMENDED USES

- Suitable as a single coat to replace individual epoxy zinc phosphate and epoxy MIO requirements.
- EPA Compliant when applied as a general purpose primer or finish in colours.
- Excellent build and hold up edges.
- Good resistance to undercutting from damaged areas.
- Ideal works coat to be overcoated by most generic top coats including alkyd, chlorinated rubber, vinyl, epoxy, polyurethane.
- Suitable as a base under most intumescent coatings (consult Tikkurila Coatings for full details).
- Use on internal and external steelwork in chemical, petrochemical environments.
- Low temperature curing.
- Reduced tendency to bloom.

VOLUME SOLIDS

72 ± 2% ASTM D2697

FILM THICKNESS

WET MICRONS 104/347

DRY MICRONS 75/250

THEORETICAL COVERAGE

9.6m²/litre @ 75 microns dry

APPLICATION

Airless Spray and Brush.

DRYING TIMES

@5°C - see below		10°C	23°C	35°C
DUST FREE		4 hours	2 hours	30 minutes
HARD DRY		12 hours	6 hours	2½ hours
OVERCOATING	MIN	See below	See below	See below
	MAX	Indefinite	Indefinite	Indefinite

COLOURS

Grey (EMP 172), Silver Grey (EMP 173).

FINISH

Matt

POT LIFE AT 23°C

4 hours

PRODUCT WEIGHT

1.75kg/litre

STORAGE CONDITIONS

Store in dry, cool conditions and protect from frost

MIXING RATIO

3 parts base to 1 part activator by volume.

THINNERS

1031

PRODUCT NOTES

Mix only in the proportions stated above, mixing each component individually then together using a mechanical agitator.
Product will chalk, degree of which is subject to atmospheric conditions.

Overcoating with itself or Temashield ENV/ENV(HS)/EMM/ERV(HS)/EMS - minimum 4 hours up to 100 microns dft (@23°C).

Overcoating with Temathane PLV/PLS (HS) or Temaseal EA 80 – minimum 12 hours (@23°C).

Extend drying times accordingly for high dry film thickness requirement in a single coat.
Curing will be retarded below 0°C. Do not apply below 5°C.

@ 5°C: Dust Free - 6 hours, Hard Dry - 18 hours, Min. overcoating - 24 hours.

4.00

Temashield EMP 172

Steel

Degrease where necessary to SSPC-SP1 solvent cleaning to remove weld flux and general contamination prior to blasting.

All sharp edges should be ground and weld spatter removed.

Blast clean to Swedish Standard SIS 05 5900 Sa 2½ or British Standard 7079 equivalent.

Maximum profile 75 microns.

Surfaces should be clean, dry and free from all grease, oil and general contamination.

SURFACE PREPARATION

HEALTH AND SAFETY INFORMATION

Refer to Health and Safety data sheets.

At all times observe precautionary notices on containers.

VOC figures are printed on Health and Safety data.

APPLICATION NOTES

METHOD	AIRLESS SPRAY	AUTOMATIC SPRAY	CONVENTIONAL SPRAY	BRUSH	ROLLER
OUTPUT FLUID PRESSURE	2500-3000 p.s.i.	No	Any suitable equipment Thinning may be necessary	Yes	Yes
TIP SIZE	18-26 thou				

Refer to Tikkurila Epoxy Application/Curing Notes

Brush/roller application will result in a reduced dft of approximately 100 microns dry.

Avoid exceeding maximum stated dry film thickness.

Apply to maximum 250 microns dry.

For 75 microns dry, an addition of 5% thinners (ref 1031) is recommended when applied by airless spray.

Only apply in conditions of good ventilation which should be maintained during drying. Do not apply when rain, mist, sleet or snow are imminent. During application and drying time of the paint coating, the surface should be dry, the Relative Humidity should not exceed 85% and the steel temperature should remain at least 3°C above the dew point.

FLASH POINT

22-32°C

EQUIPMENT CLEANER

950

The information in this data sheet is correct at the time of printing.
Consult Tikkurila Coatings before applying as to the suitability for use otherwise we cannot be held responsible for conditions beyond our control.