EPOXY HIGH BUILD – GP-EW2

GP-EW2—GREY

GERMA-TECH FLEET LINE

HIGH PROTECTIVE

PRODUCT DESCRIPTION

Advanced environmentally friendly water-based technology products, consisting of water-based epoxy polymers, various environmentally friendly pigments and fillers, purified water, and a small amount of film forming additives

Self-drying and low temperature baking, 2 component water-based epoxy thick paste paint. Excellent rust resistance, chemical resistance, and salt spray resistance; Good construction performance, high quality and efficiency; Low odor, extremely low VOC content, green and environmentally friendly.

Suitable for various steel structures such as phosphated steel plates, sandblasted steel plates, or cured and polished two component epoxy primers.

Widely used in the coating of railway and high speed trains. High level of protection and can single coat.

Property	Value	Standard
Color	GREY	
Solids % Content	≥60%	GB/T 1725
Drying & Cure times at 20°C (68°F)		
Pot Life	2 hours	
Touch dry	2 hours	
Hard dry	48 hours	Recommend bake
Dry to recoat	10-20 min	Flash Off
Fineness	≤50	GB/T 1724
Viscosity (cP/25°c)	3000-10000	GB/T 1723
Adhesion (3mm, grade)	≤1	GB/T 9286
Flexibility (mm)	≤10	GB/T 1731
Impact Resistance (kg/cm)	≥50cm	GB/T 1732
Hardness	≥H	GB/T 6739
Salt resistance	≥800H	GB/T1771
Heat Resistance	(120°c ±2), 3h passed	
Water Resistance (40°c 240h)	No peel or bubble—slight gloss loss	GB/T1733
Film Thickness (typical)	120-200μm standard 300 μm achievable	
Theoretical Coverage Rate	6-10 meters squared per liter (m²/L) single coating 3-4 meters squared per liter (m²/L) two coating	

PRODUCT FEATURES

Excellent adhesion.
Excellent corrosion resistance.
Excellent mark and abrasion resistance.
Excellent durability.

PRODUCT APPLICATION

Prepare the surface by following guide.
Apply by brush, roller or spray at the specified thickness.
Allow to cure.
Recoat or apply topcoat as needed.

PRODUCTS

KIT FORM	**GP-EW2**
Epoxy High Build	WT-EP1000 Epoxy Primer
Hardener	WT-EH101 Epoxy Hardener
Reducers	
All Conditions	Distilled Water
Cleaners	GP5101 Prepsol heavy duty wax and grease

SUBSTRATES & PREPARATION

Epoxy High Build can be applied over the following substrates once they have been prepared as follows:

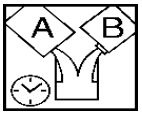
SUBSTRATE	**PREPARATION**
Cast Iron	P80-P120 - dry
Bare Steel	P80-P120 - dry, or shot blast SA2.5 level 30-75 µm
Phosphated Steel	Scourer
Galvanized Steel	P80-P180 - dry
Light Alloys	P240-P320 - dry
Aluminium	P240-P320 - dry
Fibre Reinforced Plastic	P240 - dry
Stainless Steel	P240-P320 – dry
Concrete	Suitable grinded or sanded surfaces
Timber	P120-240 - dry

Heavily rusted surfaces should be abrasively blast cleaned.

Before and after any sanding operation, the substrate must be thoroughly degreased to remove all traces of dirt, oil, grease, silicone, wax etc. Use GP5101 Prepsol.

Substrates other than those stated above such as previously painted surfaces should be tested before use to ensure that the performance of this product is suitable for its intended use.

MIXING RATIO BY VOLUME



MIXING RATIO

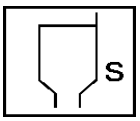
Epoxy Primer	*mix*	(by volume)
Hardener	*by*	(by volume)
Reducer	*weight*	(by volume)

Epoxy Primer	4	(by weight)
Hardener	1	(by weight)
Reducer	0.1-0.8	(by weight)

Mix the primer with the explosion-proof motor agitator before and after adding hardener and thinner.

POT LIFE

Catalysed material is useable for up to 2 hours at 25°C



SPRAY VISCOSITY

CONVENTIONAL, HVLP	35-45 seconds (B4) at 25°C
AIRLESS / AIR ASSISTED AIRLESS	120+ seconds (B4) at 25°C

SPRAY GUN

CONVENTIONAL, HVLP

TIP SIZE	2.0MM - 3.0MM
SPRAY PRESSURE	2.0-3.0 bar
VISCOSITY	35-45 second DIN4 cup

SUCTION

TIP SIZE	2.0MM - 3.0MM
SPRAY PRESSURE	2.0-3.0 bar
VISCOSITY	35-45 second DIN4 cup

DIAPHRAGM PUMP

TIP SIZE	1.0-1.3MM
SPRAY PRESSURE	3.0-4.0 bar
VISCOSITY	30-80 second DIN4 cup

AIRLESS / AIR ASSISTED AIRLESS

TIP SIZE	0.33-0.48MM
SPRAY PRESSURE	4.0-7.0 bar
VISCOSITY	120+ second DIN4 cup

BRUSH OR ROLL

APPLICATION & FLASH OFF

CONVENTIONAL, HVLP, DIAPHRAGM	1-2 coats for filling and sanding 1 - 2 coats for Wet on Wet First coat medium second coat full
AIRLESS, AIR ASSISTED AIRLESS	1 - 2 wet, even coats
SINGLE COATING	If single coating apply 1 full coat at a gun distance of 25-35cm to arrive at desired thickness.

Allow 10-20 minutes flash off between coats at 25°C

Allow 30-60 minutes air dry before baking if baking

Allow 30 minutes air dry if applying topcoat colour in wet on wet application. Epoxy film will matte once sufficiently flashed off.

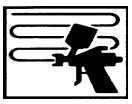
DRYING TIMES

AIR DRY (25°C)

• TOUCH DRY:	2 hours
• TACK FREE:	2-3 hours
• HARD DRY:	48 hours + (recommend bake)
• BAKE (60 DEGREES)	120 minutes

Note: Drying times can vary dependent on temperature, flash off between coats, film builds and number of coats applied. Do not apply in humidity above 85%.

RECOAT



Can be top coated with any Germatech direct gloss topcoat, DO NOT apply any Basecoat systems or single pack topcoats to this product. Recommendations are based on 25°C ambient

Can be top-coated in a WET ON WET application after 30 minutes minimum dry time at 25°c.

If recoating after 48 hours the coating must be abraded and degreased prior to painting.

If recoated after 14 days the coating must be abraded and degreased prior to re-priming.

Aged films must be chalk and dirt (abraded and degreased) before recoating.

BUILD

TOTAL DRY FILM BUILD	120-200 µm standard (2 coats) 50-80 µm standard (1 coats) 300µm achievable (maximum) Adjust drying times if applying above standard build

TECHNICAL PARAMETERS

VOLUME SOLIDS (RFU)	60%+
COVERAGE	6-10 meters squared per liter (m^2/L) single coating 3-4 meters squared per liter (m^2/L) two coating
RESISTANCE PROPERTIES	
WEATHERING	Poor (Requires topcoat) if in sunlight
ABRASION	Good
SOLVENT	Good to splash and spillage for common solvents
CHEMICAL	Good to splash and spillage for mild chemicals
HEAT	Satisfactory up to 120ºC Dry Heat
IMMERSION	Not recommended

EQUIPMENT CLEANING & STORAGE

After use, clean all equipment thoroughly with cleaning solvent or thinner.

Store in cool and dry place preferable 20°C within 5-30°C.

The original packaging can be sealed and stored for up to 9months

HEALTH AND SAFETY

Please refer to Safety Data Sheets (SDS) for full Health and Safety details, as well as product can

Hardeners and activated products contain isocyanate and therefore particular safety precautions must be taken; please refer to SDS for full health and safety details.

This product is for professional use only.

The information given in this sheet is for guidance only. Any person using the product without first making further inquiries as to the suitability of the product for the intended purpose does so at his or her own risk and we can accept no liability for the performance of the product or for any loss or damage arising out of such use. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development. Refer to www.geramtatech.com.au for the most up to date Technical Data Sheet versions.

Drying times quoted are average times at 25°C/77°F. Film thickness, humidity and shop temperature can all affect drying times.

Product name: GP-EP1 HIGH BUILD EPOXY PRIMER

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