

KEMP DMG - 316™

(Two component)

KEMP DMG-316 is a two-liquid solventless paint, (epoxy resin + amine-hardened) Manufactured from high purity epoxy resin and ceramic composite Polymer Blend technique. It has a unique molecular structure that has never been seen before, and has many different advantages from conventional coatings.

Feature(Characteristics)

1. Workability and quality are not affected even in rust, wet(water) and oil environments
2. Excellent adhesion to metals, non-ferrous metals, glass, tiles and stone
3. Excellent adhesion to the FRP
4. Good water resistance
5. Excellent thermal shock
6. Excellent hardness and smooth surface
7. Excellent chemical resistance

Where to apply

1. Metallic and concrete surfaces contaminated with mineral oil
2. Emergency repair of metal and concrete pipes
3. FRP protective coating
4. Adhesive between materials that are difficult to bond
5. Tank lining

Excellent Features

1. Finished conditions : Green and Gray
2. Epoxy specific gravity : 1.49
3. Hardener specific gravity : 1.03
4. weight ratio : 5(epoxy) : 1(hardener)
5. mixed viscosity : 6500cps (@25°C)
6. Upper coating limit time : 7 days
7. minimum application thickness : 100 μ m
8. recommended application thickness : 200~250 μ m
9. maximum application thickness : 2000 μ m
10. Theoretical coating ratio : 140g/m² at the condition of 100 μ m (DFT) on the plane

How to use

1. Surface treatment

- Recommend : SSPC-SP10 / Profile : 50 μ m more than
- Rusted surface : SSPC-WJ3 more than (Remove Loose Rust)
- Wet surface : SSPC-WJ3 more than
- Above oil : SSPC-WJ3 more than
(The solidified oil content of 1 mm or more shall be removed and cleaned using a tool.)

2. Mixing

- Weight ratio of 5 (epoxy) : 1 (hardener) ratio must be strictly observed.
- Before use, the epoxy must be completely mixed with the solids deposited in the lower section using the electric stirrer and the zippy blade.
- When mixing, sufficiently stir the clear color of the hardener to be invisible.
Use a power stirrer unless a small amount of the product is measured.
- Be careful not to let in dust etc...

3. Work

- Spray, roller, brush available.
- Use of air spray is not recommended. Pumps above 68:1 are recommended when using airless spray equipment.
- We do not recommend the use of diluents in the product, but if the product is forced to use them due to problems in the working environment, it is not recommended to use more than 5% of the weight, and toluene and ethanol diluents should be used.

4. Precautions for Use

- The temperature of the retention (material) during coating and curing must be 5°C or higher.
- Unable to start firearm operations such as welding.
- Compliance with pot-life and curing times.
- No adhesion performance with animal oil & vegetable oil.
- Topcoat required for outdoor exposure.

※ Information of this technical data is obtained based on the theory and experience of our technical institute and is subject to change for the improvement of quality without prior notice

※ Check if the version of data to refer is the recently updated version before the use

Curing time

1. Pot-life : 40min @ 20°C | 20min @ 32°C
2. Set to touch drying : 4 Hour @ 20°C
3. Full hardening : 7 Days @20°C

General information

1. Safety, environment

- Wear safety glasses to protect the operator's eyes.
- Be sure to wear nitrile gloves to protect the skin of workers.
- Be sure to wear an organic solvent-proof mask when working in a closed space.
- Process used coating agents and bowl according to the prescribed method.

2. Storage method

- Storage temperature : 16°C~32°C
- Storage space : Store in a well-ventilated, non-humid place with no direct sunlight.
- Storage life : Quality maintenance life is about 2 years from the date of manufacture.

3. Packaging unit

- Epoxy : 18kg / hardener : 3.4kg
1 SET : 21.6kg

Technical data

	standard	result
hardness	KS M ISO 868	70
gloss ratio	KS M ISO 2813	85(60°)
glue shear-strength(standard)	KSM 3734	124 kgf/cm ²
glue shear-strength(oil)	KSM 3734	137 kgf/cm ²
T-shaped peel strength	KS M ISO 11339	4.4 kgf/cm ²
adhesion	ASTM D 4541	more than10 MPa
Volume resistance	KS C IEC 60455-3	>1 × 10 ¹⁵ Ω · cm
S.S.T	KS D 9502	500 hr
chemical resistance	inquire	

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