



Temanyl GF

DESCRIPTION

A two-component glass flake reinforced vinyl ester acrylic co-polymer heavy duty coating/lining.

PRODUCT FEATURES AND RECOMMENDED USES

- To be used in immersion environments where superior resistance to chemical stress and high temperature is required. Resists crude oil up to +90°C, formic, acetic, lactic, maleic and phthalic acid and sulphuric, phosphoric, nitric and perchloric acid. Resistant to variety of alcohols, ketones and other solvents, wet and dry sulphur dioxide and trioxide fumes, black and white liquor (pulp mill). Temperature resistance +100°C in sea water. Especially developed for long-term, economical protection of storage tank
- Provides outstanding protection for internal lining for offshore, onshore and buried tanks and pipes subject to extreme chemical exposure and mechanical wear. Instead of a multi-layer system, only 1-2 coats are required but the achieved durability is the same. These properties result in cost-savings throughout the entire lifetime of the coated surface
- Surfaces coated with Temanyl GF can be taken into use 72 hours after application. Less downtime is a remarkable benefit
- Also used in aggressive atmospheric or spillage conditions (secondary containment)
- Separate chemical resistance list available
- Suitable to be for internal lining for offshore, onshore and buried tanks and pipes subject to extreme chemical exposure and mechanical wear

TECHNICAL DATA

Volume solids

approx 99%

Weight solids

approx 100%

Specific gravity

1.2 kg / l

Mixing ratio

Base 98 part by volume Temanyl GF
Hardener 2 part by volume Hardener 008 7200

Additional inhibitor may be used during application at high ambient temperatures. The inhibitor must be added and mixed in prior to the peroxide. Adding inhibitor after the peroxide will ruin the product.

Pot life

30–45 minutes (+20°C). May vary depending on temperature, and by use of inhibitor.

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
wet	dry	
500µm	500µm	2 m ² /l
1000µm	1000µm	1 m ² /l
2000µm	2000µm	0.5 m ² /l

Practical coverage depends on the application method, painting conditions and the shape and roughness of the surface to be coated.



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Drying time

DFT 1000µm	+23°C	+35°C
Dust dry, after	4h	3h
Touch dry, after	6h	5h
Recoatible, min. after	2h	1.5h
Recoatible, max. after	48h	24h

Full cure 3–4 days at +23°C. May be immersed in many environments after 24 hours. Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation.

In extreme environments it is recommended that the full coating system is post cured at +60–80°C with dry heat for 6 hours. For detailed instructions contact Tikkurila Technical service.

Gloss

Rough, glossy.

Color shades

Beige.

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APPLICATION INSTRUCTIONS

Surface preparation	Oil, grease, salts and dirt are removed by appropriate means. (ISO 12944-4) Steel surfaces: Blast clean to grade Sa2½. (ISO 8501-1) The surface profile must be minimum 50µm. (ISO 8503-2)
Recommended primers	Temanyl GF.
Recommended topcoats	Temanyl GF.
Application conditions	All surfaces must be clean, dry and free from contamination. The temperature of the ambient air, surface and paint should not fall below -5°C during application and drying. Relative humidity of the air should not exceed 80% during application and drying. The surface temperature of steel should remain at least 3°C above the dew point and not more than +20°C above the paint temperature. Good ventilation and sufficient air movement is required in confined areas during application and drying. Paint temperature should be above +15°C (to achieve good spray pattern), and below +30°C (relatively fast curing reaction shortening the pot life). If material temperature is higher separate inhibitor should be used.
Mixing components	First stir base and hardener separately. The correct proportions of base and hardener must be mixed thoroughly before use. Use power mixer for mixing. Insufficient mixing or incorrect mixing ratio will result in uneven drying of the surface and weaken the properties of the coating. Use the paint immediately after mixing. If left standing the heat of chemical reaction will shorten the practical pot life considerably. If temperature of the paint mixture exceeds +50°C during application, stop painting and flush the equipment.
Application	For airless spraying, the pump should be of 45:1 or greater. Fit leather and PTFE seal combination and remove all fluid filters. 10mm diameter (3/8") nylon lined hose with 6mm whip end, large bore gun with reverse clean spray tip. Recommended nozzle tip is 0.029"–0.048" and pressure approx. 200 bar. Size of nozzle and fan angle will vary depending on the nature of the work. Spray angle should be 45°–60°. Use "wet-on-wet" technique with film thickness 500–2000 µm.
Thinners	Do not thin.
Cleaning of equipment	Thinner 1031, MEK and MIBK (before coating has gelled, immediately after application).
VOC	The Volatile Organic Compounds amount is 15 g/litre of paint.

HEALTH AND SAFETY Containers are provided with safety labels, which should be observed. Further information about hazardous influences and protection are detailed in individual health and safety data sheets.
A health and safety data sheet is available on request from Tikkurila Oyj.

For industrial use only.

The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.

The product is intended for professional use only and shall only be used by professionals who have sufficient knowledge and expertise on the proper use of the product. The information above is advisory only. To the extent permitted by applicable law, we shall not approve of any liability for the conditions under which the product is being used or for the use or application of the product.

In case you intend to use the product for any other purpose than that recommended in this document without first getting our written confirmation on the suitability for the intended use, such use takes place at your own risk.