

Technical Data

Marathon IQ GF



Product description

Marathon IQ GF is a practically solvent free, abrasion resistant, two-pack epoxy coating reinforced with glass flakes.

Recommended use

A high build coating for steel subject to extreme atmospheric or mechanical exposure. A 1-coat system shall be used to obtain maximum mechanical strength.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (µm)	250	650	300
Film thickness, wet (µm)	250	650	300
Theoretical spreading rate (m ² /l)	3,9	1,5	3,3

Physical properties

Colour	Limited number
Solids (vol %)*	98 ± 2
Flash point	55°C
VOC	30 gms/ltr UK-PG6/23(97). Appendix 3
Gloss	Glossy
Gloss retention	Fair
Water resistance	Excellent
Abrasion resistance	Excellent
Solvent resistance	Excellent
Chemical resistance	Excellent
Flexibility	Fair
Compatibility with cathodic protection	Excellent

*Measured according to ISO 3233:1998 (E)

Surface preparation

All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504.

Bare steel

Cleanliness: Blast cleaning to min. Sa 2 ½ (ISO 8501 1:2007). Roughness: using abrasives suitable to achieve Grade Medium G (50 - 85 µm, Ry5) (ISO 8503-2).

Coated surfaces

Clean, dry and undamaged compatible primer. Contact your local Jotun office for more information.

Other surfaces

The coating may be used on other substrates. Please contact your local Jotun office for more information.

Condition during application

The temperature of the substrate should be minimum 10°C and at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is required in confined areas to ensure proper drying. The coating should not be exposed to oil, chemicals or mechanical stress until cured.

Application methods

Spray	Two-comp. heated airless spray. If permitted, thin 10%, to use normal airless spray (However, the abrasion resistance may be reduced. No thinning accepted when used for ice resistance)
Brush	Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.

Application data

Mixing ratio (volume)	2 parts Comp. A (base) to be mixed thoroughly with 1 part Comp. B (curing agent)
Pot life (23°C)	30 minutes (Reduced at higher temperatures).
Thinner/Cleaner	Jotun Thinner No. 17, max 10%.
Guiding data airless spray	
Pressure at nozzle	20 MPa (200 kp/cm ² , 2800 psi)
Nozzle tip	0.63-1.09 mm (0.025-0.045")
Spray angle	40-80°
Filter	Remove all filters.
Note	Thinning will prolong the drying and curing times.

Drying time

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with:

- * Good ventilation (Outdoor exposure or free circulation of air)
- * Typical film thickness
- * One coat on top of inert substrate

Substrate temperature	10°C	23°C	40°C
Surface dry	6 h	3 h	2 h
Through dry	20 h	10 h	4 h
Cured	14 d	7 d	3 d
Dry to recoat, minimum	20 h	10 h	4 h
Dry to recoat, maximum ¹	5 d	3 d	2 d

1. The surface should be free from chalking and contamination prior to application. If the maximum dry to recoat time is exceeded, please contact your local Jotun office.

The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions could be included.

Typical paint system

On Sa 2½ :

Marathon IQ GF **1-2 x 300 µm** **(Dry Film Thickness)**

If overcoated with antifouling, a tie-coat is required.

Other systems may be specified, depending on area of use

Storage

The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed.

Handling

Handle with care. Stir well before use.

Packing size

20 litre unit: 10 litres Comp. A (base) in a 20 litre container and 5 litres Comp. B (curing agent) in a 5 litre container
Packing may vary from country to country according to local requirements.

Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet.

DISCLAIMER

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.

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