Technical Data PENGUARD PRIMER



Product description

Penguard Primer is a two-pack polyamid epoxy primer based on a high molecular weight epoxy resin. This product is part of a complete system which is certified not to spread surface flames.

Recommended use

Anticorrosive primer in a complete Penguard system. Can be used on steel, galvanised steel or aluminium. May be overcoated with epoxy, chlorinated rubber, vinyl or polyurethane coatings.

Film thickness and spreading rate

•	Minimum	Maximum	Typical
Film thickness, dry (µm)	40	60	50
Film thickness, wet (µm)	80	120	100
Theoretical spreading rate (m ² /l)	12.75	8.5	10.2

Physical properties

Colour Red Solids (vol %)* 51 ± 2

Specific Gravity 1.1 - 1.3 (after mixing) Flash point 25° C ± 2 (Setaflash)

Gloss Matt
Water resistance Very good
Abrasion resistance Solvent resistance Chemical resistance Flexibility Good

Surface preparation

All surfaces should be clean, dry, undamaged, shop primed or blast cleaned to Sa2½ (ISO 8501-1:1988/SS 05 5900). Power tool cleaning to min. St.2(ISO 8501-1:1988/SS 05 5900), may be acceptable or minor touch-up work subject to exposure conditions. Bare steel

Cleanliness: Blast cleaning to Sa.Roughness: using abrasives suitable to achieve grade Fine to Medium G (30-85 μ m, Ry5) (ISO 8503-2)

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 usually required in confined areas to ensure proper drying. The coating should not be exposed to oil, chemicals or mechanical stress until cured. If necessary, Penguard Stayer, Penguard Primer, Penguard HB, Penguard Special may be used down to 2°C, provided a special accelerator is added.

Application methods

Spray Use airless spray

Brush Recommended for stripe coating and small areas, care must be taken to achieve

the specified dry film thickness.

Application data

Mixing ratio (volume) 4 parts Comp. A (base) to be mixed thoroughly with 1 part Comp. B

(curing agent).

Mixing ½ hour prior to use.

Pot life (23°C) 8 hours. (Reduced at higher temp.)

Thinner/Cleaner Jotun Thinner No. 17

Guiding data airless spray

Pressure at nozzle 15 MPa (150 kp/cm² 2100 psi) Nozzle tip 0.46 - 0.58 mm (0.018-0.023")

Spray angle 40 - 80°

Filter Check to ensure that filters are clean.

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	35°C
Surface dry	2 h	1 h	0,5 h
Through dry	14 h	6,5 h	4 h
Cured	14 d	7 d	3 d
Dry to recoat, minimum	8 h	4 h	2 h

Dry to recoat, maximum

- 1. Measured according to BS 3900 part C2
- 2. Measured according to BS 3900 part C3
- 3. Recommended data given for recoating with the same generic type of paint
- 4. Provided the surface is free from chalking and other contamination prior to application, there is normally no overcoating time limit. Best intercoat adhesion occurs, however, when the subsequent coat is applied before preceding coat has cured. If the coating has been exposed to direct sunlight for some time, special attention must be paid to surface cleaning and mattening/removal of the surface layer in order to obtain good adhesion.

Note: 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

Durathane / Hardtop AS 1 x 40 µm Other systems may be specified, depending on area of use

SPECIAL WASHING PROCEDURE WHEN THIS PRODUCT IS USED IN TANKS FOR POTABLE WATER

Fither

After the paint is cured (see drying/curing time above), the tank is filled with warm water (above 60 - 80°C), which shall remain in the tank for 24 hours. Then the tank is thoroughly washed, using water of min. 80°C together with brushes or washed with steam

After the paint is cured (see drying/curing time above), the tank shall be ventilated with warm air, min 23°C for 7 days. Then the tank is filled three times with warm water (min. 50°C), each filling shall remain in the tank for 24 hours. Finally, the tank is washed, using water of min. 50°C together with brushes or washed with steam

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: 16 litres Comp. A (base) in a 20 litre container and 4 litres Comp. B (curing agent) in a 5 litre container

٥r

5 litre unit: 4 litres Comp. A (base) in a 5 litre container and 1 litre Comp. B (curing agent) in a 1 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 quarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.

Jeddah - Head Office Rivadh – Branch Dammam - Branch Yanbu - Branch Jotun saudia CO. LTD Jotun Saudia CO. LTD Jotun Saudia CO. LTD Jotun Saudia CO. LTD P. O. Box 91586 P. O. Box 34698 P. O. Box 4906 P. O. Box 30154 Jeddah 21478 Riyadh 11643 Dammam 31412 Yanbu Al Sinaiyah Saudi Arabia Saudi Arabia Saudi Arabia Saudi Arabia

Phone +966 02 6350535 Phone +966 01 2430503 Phone +966 03 8473090 Phone +0966 04 3962911 +066 02 6362483 Fax +966 01 2709689 Fax +966 03 8474097 Fax +0966 04 3968483

Jotun is a World Wide company with factories, sales offices and stocks in more than 50 countries. For your nearest local Jotun address please contact the nearest regional office or visit our website at www.jotun.com

> ISSUED MARCH 2005 BY JOTUN SAUDIA CO. LTD THIS DATA SHEET SUPERSEDES THOSE PREVIOUSLY ISSUED