

# Technical Data

## JOTASHIELD THERMO



### Product description

Jotashield Thermo is a medium texture flexible thermal insulation coating based on a high quality 100% pure acrylic water based binder and special glass spheres.

---

### Recommended use

Specially recommended for exterior use on all types of cement plaster and concrete surfaces. The product has excellent weather and water resistance. Jotashield Thermo provides an attractive texture that will hide and cover minor imperfections in the surface when applied with a sponge roller or Trowel. The product has been independently tested at the Dubai Municipality central lab, the Thermal resistance value obtained is 0.1016 m<sup>2</sup>k/W and the Thermal conductivity value a 0.1055W/mk. Jotashield Thermo is classified as a suitable concrete protection system with Thermal insulation properties.

---

### Film thickness and spreading rate

	Minimum	Maximum
Film thickness, dry (µm)	150	1000
Film thickness, wet (µm)	330	2400
Theoretical spreading rate (m <sup>2</sup> /l)	3.3	0.5

Comments:

Film thickness will vary and are calculated as an average. Spreading rates depend on type of texture, surface porosity, imperfection

---

### Physical properties

Colour	White and a selection of colours as shown in the Jotashield Thermo Brochure
Solids (vol %)*	50 ± 2
Gloss	Semigloss
Water Resistance	Very good
Flexibility	Very good

---

### Surface preparation

The Substrate must be sound, clean and dry, free from dust, oil, grease, laitance etc. all traces of release agents must be removed. On chalky and dusty surface, all loose material must be removed by stiff bristle brushing.

---

### Condition during application

Apply at a temperature between 10°C and 35°C. The temperature of the substrate should be min. 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate.

---

### Application methods

Spray	Airless or conventional spray
Brush	Recommended
Roller	Recommended
Other	Trowel, see application procedure

---

## Application data

Mixing ratio (volume)	Single pack.
Thinner/Cleaner	Water
Guiding data airless spray	
Pressure at nozzle	20 mpa. (200 kg./cm <sup>2</sup> 2800 psi.)
Nozzle tip	(0.021" - 0.031") (0.53mm – 0.79mm)
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
- \* Relative humidity 70%

Substrate temperature	10°C	23°C	40°C
Surface dry	120 min	60 min	45 min
Through dry	48 h	24 h	12 h
Dry to recoat, minimum	10 h	5 h	3 h

1. Recommended data given for recoating with the same generic type of paint.
2. In case of multi-coat application, drying times will be influenced by the number and sequence and by the total thickness of previous coats applied – reference is made to the corresponding system data sheet.
3. The surface should be dry and free from any contamination prior to application of the subsequent coat.

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 porous and chalky surfaces:

Penetrating Sealer	1 Coat
Jotashield Thermo Primer	1 Coat
Jotashield Thermo	2 Coats.

On new surfaces and old, sound paint surfaces

Jotashield Thermo Primer	1 Coat
Jotashield Thermo	2 Coats

On new concrete, as a concrete protection system

Jotashield Thermo Primer	1 Coat
Jotashield Thermo (undiluted)	2 Coats

If any imperfections exist on the substrate, use Jotashield filler to level the surface.

Other systems may be specified, depending on the area of use.

---

## Storage

The product must be stored in accordance with national regulations. The product must be kept in a cool and well-ventilated place, protected from heat and direct sunlight. Containers must be kept tightly closed.

---

## Test Certificates

Determination of Crack Bridging Ability: Performed by Taywood Engineering UK. (Under Test)

Determination of Carbon Dioxide Diffusion Resistance: Performed by Taywood Engineering UK.(under Test)

Determination of Moisture Vapour Transmission Rate: Performed by Taywood Engineering UK.(under Test)

Determination of Liquid Water transmission rate: Performed by Taywood Engineering UK.(under Test)

Determination of Chloride Ion Diffusion Resistance: Performed by Taywood Engineering UK.(under Test)

---

## Handling

Handle with care. Stir well before use.

---

## Packing size

1 US G and 5 US G.

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.*

Jeddah - Head Office	Riyadh (Branch)	Dammam (Branch)	Yanbu - Factory
Jotun Saudia Co. LTD	Jotun Saudia Co. LTD	Jotun Saudia Co. LTD	Jotun Saudia Co. LTD
P.O. Box 34698	P.O.Box 91586	P.O Box 4906	P. O. Box 30154
Jeddah - 21478	Riyadh 11643	Dammam 31412	Yanbu Al Sinaiya
Saudi Arabia	Saudi Arabia	Saudi Arabia	Saudi Arabia
Phone +966 02 6350535	Phone +966 01 2430503	Phone +966 03 8473090	Phone +966 04 3962911
Fax +966 02 6362483	Fax +966 01 2709689	Fax +966 03 8474097	Fax +966 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](http://www.jotun.com)

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