

## Jotun Essence Tough Shield

### Product description

#### Type

A waterborne modified acrylic based emulsion paint that is formulated to protect your exterior walls against weathering elements and algae and fungus.

#### Features and benefits

Weather Resistance - Able to withstand weathering elements such as sunlight and rain so your property looks beautiful.

Anti Algae & Anti Fungal - Protects wall from algae and fungus to ensure wall looks clean and beautiful.

Good Hiding - Provides good hiding power to conceal wall imperfection with a smooth finish.

Easy to apply - Effortless application without fuss.

Formulated Without Harmful Chemicals - Free from harmful chemicals and emissions such as APEO, formaldehyde and heavy metals.

#### Recommended use

For exterior application, suitable for new buildings or repainting.

#### Substrate

On concrete, masonry, plaster & brick work surfaces.

### Product data

<b>Packaging size</b>	Packing may vary from country to country according to local requirements.
<b>Colours</b>	As per the colour card and available in Jotun Multicolor tinting system (Exterior range).
<b>Solids by volume</b>	37 ± 2 volume%

### Application data

#### Remarks

Handle with care. Stir well before use.

#### Application equipment / methods

By brush, roller, airless spray or conventional spray.

#### Guiding data for airless spray

<b>Nozzle tip</b>	0.021-0.027"
<b>Spray angle degrees</b>	65-80°
<b>Pressure at nozzle</b>	140 - 190 kg/cm <sup>2</sup> (2100 psi)

### Spreading rate per coat

**Theoretical** 9.3 m<sup>2</sup>/l - 12.3 m<sup>2</sup>/l

Spreading rate depends on film thickness applied, type of texture, surface porosity, imperfections, temperature, wastage during painting etc.

### Recommended film thickness per coat

**Wet** 81 µm - 108 µm  
**Dry** 30 µm - 40 µm

Film thickness will vary and is calculated as average.

### Thinner

Water

### Dilution

The paint is ready to use after proper stirring. If thinning is required, water may be added up to a maximum of 5%.

### Conditions during application

The temperature of the substrate should be minimum 10 °C and at least 3 °C above the dew point of the air, measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying.

### Drying times

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

The given data must be considered as guidelines only. The actual drying time and time before recoating may be shorter or longer, depending on the ambient temperature, film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc.

1. Recommended data given is, 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.
3. The surface should be dry and free from any contamination prior to application of the subsequent coat.

#### The drying time is measured by stated values:

**Relative Humidity (RH) 50 %**

<b>Substrate temperature</b>	10 °C	23 °C	40 °C
<b>Surface (touch) dry</b>	2 h	1 h	0.5 h
<b>Hard dry</b>	8 h	6 h	4 h
<b>Dry to over coat, minimum</b>	4 h	2 h	1 h

## Directions for use

### Surface preparation

The substrate must be sound, clean, dry and free from dust, oil, grease, laitance etc. All traces of form release agents/curing agents must be removed. A light sanding with suitable abrasive material is recommended before application. Any resulting dust/loose particles must be removed.

### Recommended paint system

### Primer

Jotun Essence Easy Primer : 1 coat

### Topcoat

Jotun Essence Tough Shield : 2 coats

### Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

## Certificates

Complies to Singapore Green Label

## Tests

SS150:1998 (Annex C) "Mildew Resistance Test"

## Health and safety

Please observe the environmental and precautionary notices displayed on the container.

A Material Safety Data Sheet for the product has been issued.

Detailed information regarding health and safety risks and precautions for the use of this product is specified in the product's Safety Data Sheet.

**First-aid measures**, refer to section 4.

**Handling and storage**, refer to section 7.

**Transport information**, refer to section 14.

**Regulatory information**, refer to section 15.

## Disclaimer

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.