TOA Construction Chemicals | Page : 1

#### **TOA Roofseal Sun Block**

### **Technical Data Sheet**



Rev.1 10/2017

	Hev.1 10/2017
FEATURES	
	: TOA Roofseal Sun Block is an elastomeric acrylic emulsion filled with ceramic microspheres used for
	waterproofing and heat protection. It protects for both summer and monsoon without having to
	worry about leakage and UV aganist with the heat reflection technology comprise with 2 special
	components,
	1. SRP (Solar Reflective Pigment) that can reflect heat up to 95%.
	2. Insulation microsphere ceramic used for covering spaceship to protect from heat.
USES	
	: TOA Roofseal Sun Block is designed for waterproofing and heat protection of ;
	- Flat roof
	- Concrete and brick wall cladding
	- A gutter concrete
	- Asbestos roof tile
	- Bitumen roof
	- Metal sheet roof
ADVANTAGES	
	: TOA Roofseal Sun Block provides the following beneficial properties :
	- Reflect over 95% of the sun heat
	- 100% proof seamless waterproof layer
	- High flexibility over 5 times or > 500% elongation
	- Prevent and good solve cracks on concrete caused by rapid change of temperature
	- Can be penetrates into cracks
	- UV resistance, harsh weather tolerance and abrasion resistance for traffic.
	- Good carbon dioxide impermeability.
	- Can be applied over a wide temperature range
	- Can use with a roller, brush and blow
	- Non-toxic, No Mercury and Lead

#### **TECHNICAL INFORMATION**

Color : White, Grey, Green, Cream

Density @ 25 °C : 1.06 - 1.08 kg / L

Solid Content : 61.0 - 63.0 %

pH @ 25 °C : 8.50 - 10.0

Viscosity @ 25 °C : 112.0 - 118.0 KU

Volatile Organic Compound: : < 1.5 g/l

ISO 11890-2

. . . . . g, .

: 110

Solar Reflectance Index (SRI) : ASTM E1980-01

Solar Reflectance : JIS R3106 : 95 %

Solar Absorbtance : JIS R3106 : 5%

Elongation : ASTM D 412 : 950 %

Tensile Strength : ASTM D 412 : 2.6 MPa

Bond Strength : BS 1881 :> 15 kgf / cm²

Water Absorption : ASTM D471 : 1.3 %

Chemical Resistance : ASTM D1308 : Not Changed

Construction Chemicals | Page : 2 **TOA** 

#### **TOA Roofseal Sun Block**

# **Technical Data Sheet**



	Rev.1 10/2017
REFERENCE STANDARD	
	: TIS 2514-2553
	Thai Green Label TGL-4-R4-14
APPLICATION SYSTEM	
Surface Preparation :	- The surface must be clean from dust, cement laitance and oil grease.
	- In case of mold and algae, brush and clean with TOA 113 Microkill leave it dry before coating with
	TOA Roofseal Sun Block.
	- Deformed paint or coating must be thoroughly cleaned before application.
	- Fill all cracks wide with TOA Polyurethane Sealant then leave it dry before coating with TOA Roofseal Sun Block.
	Repair concrete crumbling or big cracks on surfaces with TOA 112 Super Bond prior to coating.
	- Polish the rust on metal surfaces prior to coating.
Application :	- Stir well before use, especially tinted.
	- If the Roof slab, Mix TOA Roofseal Sun Block with clean water in the ratio of 3:1 and apply as the
	primary coat, leave it to dry for 2 – 4 hours approximately.
	- If the Metal sheet, Apply TOA Rust Tech for rust prevention and enhance bonding ability to the paint
	and allow to dry.  - If the roof tile is old, apply TOA Contact Primer to enhance bonding ability of the paint and allow
	to dry
	- If reinforcement is needed, use TOA Fiber mesh after the primary coat immediately and press
	against the surface.
	- Spray TOA Roofseal Sun Block with airless spray machine two or three times leave to dry for 2-4
	hours in between.
	- TOA Roofseal Sun Block will have the highest effectiveness 7 days after installation.
Recommendation:	- The cracks must be sealed before the primary coat. Reinforce with TOA Fibermesh while wet before
	coating with TOA Roofseal Sun Block 2 – 3 coats.
	- TOA Roofseal Sun Block should not be applied to new concrete less than 28 days old and other
	cementitious surfaces less than 7 days old.
	- Do not use TOA Roofseal Sun Block while raining.
	- For the polished surface recommend to use TOA Penetrating Sealer to enhance bonding ability to
	the paint.  - TOA Roofseal Sun Block uses for waterproofing for all horizontal (roof deck) or vertical masonry
	surfaces not suitable for long term water ponding (water tank). TOA Roofseal Sun Block gets full
	resistance properties after 7 days
	- Wash all tools immediately after use with water.
USAGE RATE	
	: 1 kg. / 1 sq.meter (Primer and 2 coats) dry film thickness of 350 – 400 micron.
HANDLING AND STOPAGE	
HANDLING AND STORAGE Storage	: - Keep all containers well closed.
Giorage	- Keep in a dry cool place.
Shelf life	: 12 months in original packing.

Construction Chemicals | Page : 3

### **TOA Roofseal Sun Block**

TOA

# **Technical Data Sheet**



	Rev.1 10/2017
DACKACING	
PACKAGING	
	: 1 kg., 4 kgs., 20 kgs.container
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	
	: This 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 only the quality of the product itself. We reserve the right to
	change the given data without notice.
	Change the given data without houce.