

KIWALITE

REFLECTIVE SHEETING

**PRODUCT
BULLETIN**

No.KL-12320

High Intensity Solas Grade #32000 Series

— Products Guidance —

KIWA CHEMICAL INDUSTRY CO., LTD

FILMS DIVISION

1. Description

“KIWALITE” High Intensity Solas Grade #32000 Series is a reflective material, which is designed to meet the requirements specified in IMO Resolution A.685 (16) adopted on 19, October 1989.

“KIWALITE” High Intensity Solas Grade #32000 Series reflective material retains high reflectivity even when totally wet by rain and water it is encapsulated type containing glass beads among plastics layers.

“KIWALITE” High Intensity Solas Grade #32000 Series reflective material has excellent flexibility and will not show any damage when rubbed or bent at a low temperature. Therefore, “KIWALITE” #32000 Series can be used for hard application to both flexible and hard substrates such as life jackets, lifeboats, etc.

2. Code No. and Types

“KIWALITE” High Intensity Solas Grade #32000 Series reflective material has two types :

#32010 : available with a flexible backing for sew-on use

#32016 : available with a pressure sensitive adhesive stick-on use

3. Reflectivity

The reflective values of “KIWALITE” High Intensity Solas Grade #32000 Series are not less than the values started below (Table-1), and this product retains at least 90% of these values when totally wet.

Table-1

Minimum reflective values ($\text{cd}\cdot\text{lx}^{-1}\cdot\text{m}^{-2}$)

D. A.		0.1°	0.2°	0.5°	1.0°
I. A.	5°	180	175	72	14
	30°	140	135	70	12
	40°	85	48	48	9.4

4. Application

For Application of “KIWALITE” High Intensity Solas Grade #32000 Series, the following instructions should be refer to :

【#32010 Type】

(1) Cutting

As the sheeting is supplied in roll, cut it to designed size using knife, cutter, scissors, or die.

(2) Sewing

Conventional sewing methods are acceptable. When using sewing machine, use “Teflon” brand coated needle.

【#32016 Type】

(1) Cutting

See the instructions given for #32010 type.

(2) Performance of substrate

Remove completely dust and soil from the surface to be applied by wiping with a rag soaked in Acetone, MEK, etc.

(3) Application

Remove the liner and apply the sheeting, at the temperature of 20°C~35°C, by a hand roller or squeegee with care to avoid trapping air under the sheeting.

After application, the sheeting must be aged for at least 48 hours at a room temperature before putting to practical use.

When intended to apply to rubber, use “Primer K” according to the following instructions:

(4) Application to Rubber

Apply a uniform coat of “Primer K” to the rubber surface using a brush in 3-5 times

of single pass, without dilution of “Primer K”. Then, air dry for at least 20–30 minutes to evaporate solvents before applying the sheeting to it.

As drying condition may affect to the adhesion and reflectivity of sheeting, examination should be made to determine acceptability of the drying condition of a work shop.

“Primer K” is designed to get 2.4–3.0kgf/50mm width will be acceptable for the practical use.

IMPORTANT: “Primer K” is not always effective for all rubber surfaces, therefore, trial application should be made to assure no effect to rubber material and #32000 Series Sheeting..

5. Cleaning

Wash by hand with a sponge or soft cloth using water and mild detergent. Never use strong solvents such as toluene, MEK, etc. Dry cleaning must be avoided.

6. Storage

“KIWALITE” High Intensity Solas Grade #32000 Series should be stored in a cool and dry place, suspending rolls horizontally from the core, and should be applied within one year after purchase.



KIWA CHEMICAL INDUSTRY CO., LTD
FILMS DIVISION

33, Mimamitanabe-cho, Wakayama-city, Japan

T e l : 0 7 3 - 4 2 3 - 3 2 1 1

F a x : 0 7 3 - 4 2 5 - 9 3 3 8

E - mail : kwp@pop02.odn.jp

— Terms and Conditions of Sales —

Although the manufacturer makes no guarantee on the absolute accuracy or completeness of the statements, recommendations and technical information and data herein contained, they are based on the manufacturer's tests which the manufacturer entrust the highest reliability.

The obligation of the manufacturer and seller shall be limited to the following scope. The manufacturer and seller shall be obligated only to replace the products which are proven to be defective. In no event shall the manufacturer or the seller be liable for any direct or consequential injury, loss or damage arising from the use of, or the incorrect use of the products. Before the use of the products, the user shall determine the suitability of the products. For the user's intended use and the user assumes all risk and liability whatsoever in connection therewith.

This guarantee limited shall not apply to the cases where administrative officials of the seller give otherwise guarantee in a signed contract agreement.