KCC FIREMASK SQ476 is one component solvent based acrylic thin film fire

Protection coating system which has to be used for structural steelwork.

FIREMASK SQ476 has been tested, assessed and gotten certifire certification with

BS476 Part 20,21 from 15 minutes up to 120 minutes for various section factors.

Recommended	Middle coat in fire-proofing coating system to provide fire protection
use	for steel structures of building or plants.(Interior use only)

Physical Properties		
Finish and Color	White, Matt	
Specific gravity	Approx. 1.3	
Solids by volume	65%	
Flash point	32 ℃ (hermetically)	

Surface	* All surface to
preparation	* Prior to pain

- * All surface to be coated should be clean, dry and free from dust, oil and grease, other contaminants.
 - at application all surfaces should be assessed and treated in accordance with ISO 8504:2000.
- Blast cleaning: SSPC-SP10 or Sa21/2 (ISO 8501-1:2007)

Preceding coat

Selected primers or priming systems must have completed the primer

qualification procedure from KCC and feature on KCC paint published primer list.

Two component Epoxy: KCC Korepox Primer EP170

* For further information, please consult the Technical Department.

Method of application

Brush

Recommended for small areas, care must be taken to achieve the specified dry film thickness.

Airless spray

Tip range: 0.027 ~ 0.033 inch

Output fluid pressure : 1,800 ~ 2,200 psi / 120 ~ 150 atm.

Fan : 30°~ 60°

(Airless spray data are indicative and subject to adjustment.)

X If use Tip less then 0.027inch it may cause trouble.

Mixing

Single pack

This material should always be mixed thorough with a power agitator before application.

Thinning

If necessary, dilute with thinner 002(summer season),003(winter season) is recommended.(use Maximum 1% by volume)

Apply after mixing for 5min. with power agitator.

Substrate	Carbon steel		
Application	The surface must be completely clean and dry.		
conditions	Do not apply when relative humidity is above 85% .		
	The surface temperatures must be at least 3℃ above dew point to prevent condensation.		
	Object temperature not below 5°C, to max. 35°C.		
Drying time	Object Temperature 10 °C 25 °C		
	Set to touch 3 h 1 h		
	Dry hard 48 h 24 h		
	X The actual drying time is dependent upon a number of factors including:		
	Temperature, Air movement, Humidity, Method of application, Thickness of coating, etc.		
Subsequent	Two component polyurethane : KCC KORETAN Topcoat UT6581		
Coat	Top coat must be applied after 3 days(in summer) and 7 days		
	(in winter) of the last mid-coat spray.		
	* Dry film thickness must be checked to ensure that specified thickness has been achieved		
	before any top coat is applied.		
Recoating	At 25°C below 85% relative Humidity, under well-ventilated condition Minimum : 24 hours		
interval	In highly humid or low temperature conditions(ex. In heavy rain), recoating interval can be		
	extended as delayed period.		
Film	Typical recommend wet film thickness is 1,000 μm.		
Thickness per	· ※ Applying too thick at one time(wet 1,300岬↑) may cause crack, poor adhesion, and delay of		
coat	drying speed. (Do not exceed 1,300µ wet film thickness per coat.)		
	* All steel sections must be coated with correct film thickness to achieve the required fire rating.		
	* Final Dry film thickness should not exceed over 30% specified thickness.		
Cleaning	KCC 002, 003 thinner		
solvent	Clean all equipment immediately after use with KCC 002, 003.		
Storage and	1 package		
Shelf life	18 months at 25℃		
Storage	Recommended storage conditions are between 5℃ and 35℃.		
	Store in dry, shaded conditions away from sources of heat and ignition.		
Packing Unit	18L		
Remarks			
Tiomarks			

Handling	This product is intended for use only by professional applicators in industrial.
Precautions	Safety Data Sheet(MSDS) and the container(s), and should not be used without
	reference to the MSDS which KCC has provided to its customers.
	All work involving the application and use of this product should be performed
	compliance with all relevant national Health, Safety & Environmental standards and regulations.
	In the event welding or flame cutting is performed on metal coated with this
	product, dust and fumes will be emitted which will require the use of
	appropriate personal protective equipment and adequate local exhaust ventilation.
Note	Intended use : Only structural steel
	In case of outdoor application, be prepare covering material for rain or snow
	Avoid the cause of fire and direct sunlight during storage. Protect skin and eyes, and avoid prolonged breathing of other solvent
	vapors. Use with adequate ventilation.
	Respiratory protection is recommended when applying in confined spaces or stagnant air.
	Keep containers closed when not in use.
	Keep coating utensils after washing several times with thinner.
	Store out of children's reach.
1'st issue	2018-05-03
Revision	

Disclaimer: The information in this data sheet is believed to the best of our knowledge based on laboratory test and practical experience. However, there are many factors affecting the performance of product and the product quality itself, so we are not able to guarantee without the confirmation of the purpose of using the product from us in writing. We reserve the right to change the data without notice and you should check that this data sheet is current prior to using the product.

