

SAVIER - 6 (FIRE RETARDENT PAINTS, PRIMERS & FLAME PROOF CLOTHS)

S.No	Code No	Description	Uses
1	FPP 701	Fire Retardent Paints	Any types of wooden surface such as doors partition in offices, showrooms, Hotels, auditoriums, Cinema Halls, Factories, Multi-Story Buildings etc.
2	FPR 703	Fire Retardent Primers	Any types of wooden surface such as doors partition in offices, showrooms, Hotels, auditoriums, Cinema Halls, Factories, Multi-Story Buildings etc.
3	FPH 713	Fire Retardant Heission	A/c ducts & vestibles & in Industrial application (flame proof, moth proof & weather proof
4	FPC 714	Fire Retardant Canvas	Bags for export consignments & gen. coverings
5	FRFF 712	Fire Resistant Furnished Fabrics	For curtains, partitions, in auditoriums, cinema halls, hotels, multi-story buildings etc.
6	TS 710	Setter	Specially made only for Savier-6 range to thin paints & primers for easy application
7	PR 711	Paint Remover (Super)	For removal of any kind of existing paint surface
8	FRSC 709	Fire Resistant Coatings on steel	For coatings any type of steel work, scaffolding etc. to prevent it from corrosion & fire.
9	HRC 707	Heat Resistant Coatings	For wood, caramics & some type steel works
10	RR 715	Rust remover (Super)	For removing any type of rust quickly & most effectively
11	FPR 704	Fire Retardent Primers	For roof coverings, In A/C work, auditoriums and in interior decoration, where water proof is not required.
12	TR 708	Thermo Retar	For thermocole

13	FB 717	Flame Bar	Gen partitions, Furnitures, Multistory Buildings, etc.
14	FRABC 709	Fire Retardant and Anti - Bacterial Coatings	In Hospitals, Laboratories, etc.
15	FCRC 705	Fire and Chemical Resistant Coatings	For Industries, Laboratories, Hospitals etc.
16		Cable Fire Barriers	For Protection Spread of Flame Through Cable
17		Fire Doors	For domestic and industrial purpose

FIRE

Fire is rapid oxidation that itself sustaining and accompanied by the evolution of heat and light. The prerequisite for combustion are heat, fuel and oxidising agent and a suitable chemical reaction path. Any method for inhibiting combustion must involve one or more of the followings.

1. Removal of heat faster than it is released
2. Separation of fuel & oxidising agent
3. Dilution of vapour phase concentration of fuel and oxidising agent below that which is necessary for combustion
4. Termination of chain reaction

CLASSIFICATION OF FIRE

1. Class A --- Fire in ordinary combustible material e.g. wood, cloth, paper, rubber
2. Class B --- Flammable & combustible liquids gases & greases
3. Class C --- Energized electrical equipments

4. Class D --- Fire in metals as magnesium, titanium, zirconium sodium and potassium

INTRODUCTION

The Fire losses in our country are increasing day by day. The studies by various Insurance Companies and Scientific groups revealed that the major cause of fire is the surface spread of fire.

Fire extinguishers, fire hydrants, sprinklers, and other fire fighting equipments are normally used in high rising, multi story buildings, for protection from fire hazards. These measures are post operative only when, fire is caught in large scale and certain losses are always there. It gives false sense of security in totality.

Now the modern technology gives emphasis on prevention of these fire hazards rather than post operative measures. The technology stresses on retarding the surface spread of flame on combustion materials. Thus minimising the fire hazards.

Wood is widely used for interior decoration, need to be protected against fire which can be rendered fire resistance coating by using FIRE RETARDENT PAINTS & PRIMERS in order to achieve the desired fire resistant properties. It is necessary to apply certain minimum quantity of fire protective paints & primers on the surfaces.

SAVIER - 6

The only solution, to the problem of the surface spread of flame or transmission of heat by combustion substance is, the use of fire resistant coatings. **Savier - 6 Series FR coatings forms an effective insulating barrier between combustion materials by forming a rigid foam when attacked by fire.**

SAVIER-6 series fire protection coatings gives same lusture, finish, durability as usual as conventional enamel paint.

In addition they are fire resistant, wheather/moisture resistant, anti termite. Thus these coatings are more economical to enamel paints. Non existence of flame is observed with the application of this product. All the properties of this unique product had been tested and verified in Shriram Test Insititute, New Delhi & other govt. laboratories.

TECHNICAL PROPERTIES OF FIRE RETARDENT PAINTS & PRIMERS

Toxicity	: mild
Density	: 1.12 kg./litre
Corrosiveness	: Anti corrosive and wear resistance
Flame retardent And	: Anti termite
Drying	: Quick drying
Finish	: Smooth/glossy/decorative finish in paints
Resistant to humidity	: Weather resistant/water resistant
Flammability	: Non – flammable when dry .
Life	: Indefinite Life (highly stable)
Freezing Point	: -8 degree C
Effect on skin	: Nil /use gloves
Rinsing	: Rinsing/washing by solvent thinner
Surface spread of flame	: Class 1 spread of flame can be achieved with its application as per IS 162:1950; BS 476 Part 6 1981; BS 476 Part 7 1971

COVERAGE

For Fire Retardent Paints

To achieve Class 1 surface spread of flame as per BS 476 Part 6 & 7 the following minimum coverage is recommended based on extensive laboratory tests carried out in different independent & Govt. Laboratories.

	SAVIER - 6	SAVIER - 6
	Fire Retardent Primers (FPR 703) (under cost)	Fire Retardent Paint (FPP 701) (Final Cost)
a) Fibre insulation board, laminates, Plaster board etc	3 sq/m/kg	4 sq/m/kg
b) Hard wood	4.2 sq/m/kg	4.2 sq/m/kg
c) Teak ply board	3.5m ² / kg	3.5m ² /kg
d) Kailwood, Softwood	3.0m ² /kg	3.0m ² /kg

Quantity of thinners with is to be excluded for calculating coverage. coating less than specified above will compromise Fire Resistant Properties

MAINTENANCE

One or two coat of FPP 701 with bush to redeem finish after 3 or 4 years of Paint finish

APPLICATION DETAILS

SAVIER - 6

Fire Retardent Paints & Primers FPP (701) & FPR (703)(water proof) as per IS 162:1950 BS 476 :Part 6 : 1981

Fire Retardent paints & primers are unique product specially made for protecting wooden surface from fire, (e.g, Doors, Panels. Cupboards, windows, partitions or any other kind of wood). It has been developed after consistant effort from our R & D department. These paints & primers are available at the same price of that of ordinary paints having extra features of fire protection properites. Also these paints are of superior finish, more durability, more coverage, more glossyness as compared to ordinary paints

Method of Application: Method of application of fire Retardent paints & primers is as similar as ordinary paints. It is advisable to follow the followign steps

1. Make wooden surfaces rough, clean & oil free for better results of fire retardancy
2. Apply two or more coats of Savier-6 Fire Retardent Primers in 12 hrs durations
3. Apply finish coat with Savier-6 Fire Retardent Paints (FPP) paints after 12 hrs of applying second primer FPR (703) coat.
4. Savier-6 Setter TS (710) is also available in market for thinning Savier - 6 paints, primers & for easy application.

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Fire Retardent Primers (Non waterproof) FPR (704) as per IS 162 : 1950

These kind of Fire Retardent Primers are basically made for roof covering & other wooden coverings where water proofness is not required. These primers are much cheaper in rates as that of others solvant based (water proof) primers.

Method of Application:

1. Make wooden surface clean & oil free
2. Apply two or more coats of Savier - 6 Fire Retardent primers FPR(704) in 6 hrs duration
3. Apply finish coat with Savier - 6 Fore Retardent paints if required

SAVIER - 6

Fire & Chemical Resistant Coatings FCRC (705) AS PER IS 157, IS 159 & IS 161

These kind of coatings FCRC (705) specially made for industrial & domestic applications, where there is a chance of fire & chemical hazards. These kind FCRC (705) of coatings. Normally recommended for industries & laboratories for protecting wooden and walls surfaces from chemical & fire hazards. These coatings are also resist to dampness & chemicals like Hydrochloric Acid, Nitric Acid, Sulphuric Acids, Hydroxides of alkalis & other chemicals. These FCRC (705) coatings available in Pink colour only, having finish as good as ordinary paints.

Method of Application:

Apply two or more Coats of Savier - 6 Fire & chemical resistant coatings on prepared, Rough clean & oil free wooden surfaces. We are also recommending this kind of coating for different surfaces (Detail on request)

SAVIER - 6

Fire Resistant & Anti Bacterial Coatings FRAbc (706) as per BS 476 part 7 : 1981

This coating (FRAbc 706) mainly recommended for hospitals, Food processing areas, Kitchens, Pharmaceuticals, Laboratories & Air conditioning systems & where ever micro organism & fire hazards exist. The Savier-6 fire resistant & anti bacterial coatings are recommended for walls & wooden surfaces. This kind of coating is available in white colour (other on request) only, having same finish as that of ordinary glossy and non-glossy synthetic enamels

Method of application:

Apply two or more coats of thermo retar on clean on oil free thermocole

SAVIER - 6

Fire Resistant Steel Coating (FRSC 709) As per BS 476 part 7 & part 8

The kind of coating mainly recommended to reduce the transmission of heat to steel structures. It can withstand temp upto 1100°C for one/ two hour resistance. Mainly recommended on steel structure of big buildings Scaffolding, Industries, Pipe Lines & A/c ducts. This kind of coating is also useful for protecting steel surfaces from fire as well as corrosion. Available in different Colours.

Why to use Savier-6 Fire Resistance Steel Coating (FPSC 709)

It is used at the time of construction for coating steel structures, because when there is major fire in building. It has been observed that Steel Surfaces & Structures get heated & start bending due to high intensity of heat - hence gives major damage to building collapse

Now to remove heat this coating is highly suitable to protect steel surfaces & buildings from major fire hazards

Method Application:

1. Apply two or more coats of FPR (703) or FPR (704) SAVIER-6 Fire Retardent Primers on prepared Corrosion Free & clean Steel surfaces
2. Apply two coats of SAVIER-6 Fire resistant Steel Coating on primer coated surfaces in 12 hrs duration.

SAVIER - 6

Heat Resistant Coatings (HRC 707) As per IS 160 & IS 161

This coating can resist heat upto 600°C & generally recommended to coat outer surfaces of ovens, furnaces, chimneys & where ever required

Method of Application

Apply two or more coats of Savier - 6 heat resistant coating on clean & oil free surfaces either by brush or spray

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Setter TS 710

This is a solvent specially recommended for thinning Savier - 6 solvent based coatings and for easy application.

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Paint Remover (PR 711): Savier 6 paint remover is a unique product to remove any kind of epoxy or non epoxy paints from wooden and other surfaces.

Method of Applications:

1. Apply paint removers on painted surfaces either by brush or cloth
2. After 1 hour you can easily remove paint layer from any kind of surface

SAVIER - 6

Fire Resistant Furnished Fabrics (FRFF712)

Flame Proof Hession FPH (713)


Flame Proof furnished fabrics

Flame Proof Canvas FPC (714)

As per IS 163:1950

These kind of coatings mainly recommended for curtains, partitions, carpets & other cotton cloths for protection FIRE hazards. These cloths are very much useful in a/c ducts, tents, Railways, Gun covers etc.

Method of Application: By dipping clean, neat, oil free cotton cloth in a solution and dry it in air



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Rust Remover (RR 715)

This solution is mainly recommended for removing old rust from steel surfaces either by brushing or by dipping

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Fire Doors (4 hours Check Doors) : These doors are mainly made for offices, godowns or other kind domestic and industrial purposes to protect the spread of fire from one room to other . These doors can withstand at temp of about 600°C

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