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

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<tr>
<td></td>
<td>Fire Retardent Primers</td>
<td>Fire Retardent Paint</td>
</tr>
<tr>
<td></td>
<td>(FPR 703) (under cost)</td>
<td>(FPP 701) (Final Cost)</td>
</tr>
</tbody>
</table>

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
   - 3.5m²/kg
   - 3.5m²/kg

d) Kailwood, Softwood
   - 3.0m²/kg
   - 3.0m²/kg

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

**MAINTENANCE**

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

**APPLICATION DETAILS**

Fire Retardent paints & primers are unique product specially made for protecting wooden surface from fire, (e.g, Doors, Panels, Cubboards, windows, partitions or any other kind of wood). It has been developed after consistent 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.

SAVIER - 6

**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:

Appy 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 costing for different surfaces (Detail on request)

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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 enemals

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 with stand temp upto 1100°C for one/ two hour resistance. Mainly recommended on steel structure of big buildings Scafoldings, 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

SAVIER - 6

Setter TS 710

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

SAVIER - 6

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
SAVIER - 6

Rust Remover (RR 715)
This solution is mainly recommended for removing old rust from steel surfaces either by brushing or by dipping

SAVIER - 6

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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