CharFomax SH-100

CharFomax SH-100, is a one pack solvent based intumescent coating in appearance to ordinary Solvent based. Upon exposure to flame or heat, it immediately foams and swells(intumesces) providing an very effective insulation and heat shield to protect the substrates. (high intumescent type).

Usage

CharFomax SH-100 is suitable to apply for steel structures. It is recommended to use as interior paint for 'I' section beams, columns and hollow sections of building construction.
For applications exterior the building, please contact the SAMHWA PAINTS Technology Research Center.

Application Procedure

Procedure	SURFACE PREPARATION - All surfaces must be free from rust, grease, oil, moisture or other contaminants that will interfere with proper bonding. - Primers should only be applied to surfaces prepared by abrasive blast cleaning to Sa2½ (ISO 8501-1:2007) or SSPC SP10. - Primed surfaces ensuring primer is kept within specified thickness, generally 50-75 microns (2-3 mils) with maximum of 100 microns (4 mils) at overlap areas, to avoid over thickness of primer. - Where existing painted steel is to be fireproofed with intumescent coating, existing paint surface must be checked for compatibility with CharFomax SH-100 prior to fire protection application. Follow manufacture's instruction for compatibility check and refer to the manufacturers recommended application system.
Caution for Usage	1. Application procedure 1.1. Due to possible settling of contents during storage. The product should be thoroughly mixed from bottom to top of container until free of lumps. No thinning is required. 1.2. Hold the spray gun 30cm from the surface. Overlap each pass by approximately 30~40% and spry the coating 50~60cm/sec speed. Pay attention not to spray excessive paint the region of the corner of steel beams. 1.3. The product can be applied to the desired thickness usually in one application of up to 30mils wet. The wet film thickness should be checked constantly with a wet film thickness gauge. 1.4. The coating should be allowed to dry for 24hours for each fire protective coat. And finished Fire protective coat film thickness must be over certified D.F.T on primer. Be sure that the entire surface is thoroughly coated with a thickness equal to or greater than the minimum required on all regions of the surface, especially regions that are usually not Immediately visible, such as joints or underneath overhangs. 1.5. The fire protective coating should be allowed to dry for 3days (summer) and 7days (winter) for several topcoats. For maximum environmental protection, the fire protective coating shall be top coated with several solvent based paints, of 50 microns D.F.T minimum, but minimum 150microns D.F.T for outside exposure sites or regions. 1.6. Rain or water running over the CharFomax SH-100 before topcoat is applied can damage the coating and may necessitate removal and re-coating. Hence it should be protected if this is a potential risk. 1. Site Condition During Application 1.1. It can be applied onto dry steelwork when air temperatures are between 5℃~ 40℃. 1.2. Relative humidity should preferably be blow 85%. If relative humidity exceeds 85% care must be taken to avoid condensation forming on the steel. 1.3. Steel surface temperature should be a minimum of 3℃ above the dew point. 1.4. Rain or water running over the CharFomax SH-100 before the base coat is cured can damage the coating and may necessitate removal and re-coating. Hence it should be protected if this is a potential risk. 2. General Remarks 2.1. Clean all equipment immediately after use with specified thinner (SuperThinner 200).

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	2.2. Don't mix with other paints 2.3. These products contain Flammable liquid and liquid petroleum gases. Store at 5~38℃ in a dry, well-ventilated place, away from sources of heat of ignition. 2.5. Keep out of reach of children. 2.6. The shelf life of this product is 12months from manufactured date, when stored indoors at 5~38℃.
Caution for handling	Don't mix with other paints. When applying over a pre-coated surface, refer to the manufacturer's Application System for Instruction. CharFomax SH-100 is very sensitive about water and humidity. Please avoid contact water and humidity before topcoating. CharFomax SH-100 is just only apply to indoor(but except the place of dew condensation and high humidity area). When apply to outdoor and exposed humidity area, you must a telephone enquiry our company. Overcoating at one time, it cause of delay the dry-time, poor adhesion property and crack. So when you spray must apply below 1,200μm Wet Film Thickness. 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. Store the paint 5~38℃ indoors. For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet.
Warning	
Application system	Primer : SUPERPOXY 110F, SUPERPOXY 130HS Series, SUPERZINC 190BG Under Coat : CharFomax SH-100 Under Coat2 : SUPERPOXY 270F Top Coat : SUPERTHANE 300F, SUPERTHANE 300 Series, SUPERRUBBER 261C
Regulations	

Physical Data

Finish	Flat	**Color**	white
Drying Time(25℃)	24hrs	**Drying Time(25℃)**	set to touch : 30min dry hard : 12hrs dry through : 30hrs
Shelf Life	12month		
Solids %	69 ±4%	**Packing Unit**	18L

※ The information given in this document is based on laboratory tests and on-site application results, but may vary depending on quality improvement and work conditions.

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