

# CharFomax SH-100

Acrylic Intumescent

## PRODUCT DESCRIPTION

One pack solvent based intumescent coating.  
Upon exposure to flame or heat, it immediately foams and swells (intumesces)  
Providing a very effective insulation and heat shield to protect the substrates.  
(High intumescent type)

## RECOMMENDED USE

Used as interior paint for 'I' section beams, columns and hollow sections of building construction. This is specially designed for structural steels. Fire endurance time is up to 2hours tested to BS476 part 20 &21 and approved to Certifire.

## PRODUCT DATA

<b>Color</b>	: Matt White
<b>Flash Point</b>	: 32°C
<b>VOC</b>	: Max 400g/L
<b>Solids by Volume</b>	: 65±2 %
<b>Coverage(Theoretical)</b>	: 0.65 m <sup>2</sup> /L [1.538 L/m <sup>2</sup> ] at D.F.T 1,000 μm
<b>Wet Film Thickness</b>	: Max. 1,400 μm (in case of airless spray at one time)
<b>Dry Film Thickness</b>	: 910 μm (in case of airless spray at one time)
<b>Method of Application</b>	: Airless spray, Brush, Roller

## DRYING TIME

Drying Time (at W.F.T 1,000 μm)				
Temperature	5°C	15°C	25°C	35°C
* Surface Dry	1hr	45 mins	30 mins	20 mins
* Hard Dry	24 hrs.	18 hrs.	12 hrs.	8 hrs.
Interval(Min)	30 hrs.	24 hrs.	18 hrs.	12 hrs.
Interval(Max)	-	-	-	-

\* Surface Dry : The State of drying when slight pressure with a finger does not leave an important or reveal tackiness.

\* Hard Dry : Hard dry time means that the condition of the film in which it is dry throughout its thickness, as opposed to that condition in which the surface of the film is dry but the bulk of the coating is still mobile. (ISO 9117-1990)  
Please contact to your CMP sales representative for more specific recommendation.

## SURFACE PREPARATION

All surfaces to be free from various contaminants (oil, grease, dust spray dust and tec.) and keep surfaces dry.  
CharFomax SH-100 should be applied over a recommended primer and comply with the coating intervals.

## APPLICATION

<b>Ambient Condition</b>	Temperature	: Min -5°C
	Humidity	: Max 85% R.H.
<b>Thinner</b>	Not recommended	
<b>Cleaner</b>	CharFomax Thinner Series	
<b>Airless Spray</b>	Nozzle Tip	: GRACO 319 ~435
	Pressure	: Min. 3,000 PSI (210 Kg/cm <sup>2</sup> )

# CharFomax SH-100

Acrylic Intumescent

Viscosity : 2.4 -3.5 Pa·s

Brush & Roller

Only use for Touch-up and Repair

## APPLICATION ADVICE

The allowance of dry film thickness may be changed in case of applying multiple coats. The maximum dry film thickness which can be applied in one coat is 910um. Drying times and Painting interval may be extended depending on film thickness, temperature, and humidity and ventilation rate.

When the use of the special thinner is necessary, it should be carried out in accordance with the application guide.

Please consult with CMP sales for more specific information in case of painting at off site.

## COMPATABILITY

Primer	<b>BANNOH Series</b> / Epoxy Primer <b>EPICON ZINC HB-2</b> / Epoxy Zinc Phosphate Primer <b>ROSWAN QD HB</b> / Alkyd Primer
Sealer Coat	<b>BANNOH Series</b> / Epoxy Primer
Topcoat	<b>UNY MARINE Series</b> / Urethane Finish <b>ACRI FINISH Series</b> / Acrylic Finish

## PACKING & STORAGE

Storage	12 months in stable temperature condition (25 °C)
Pack size	18L (23.7Kg)

## SAFETY PRECAUTIONS

In order to ensure safe use of our product, please be sure to follow the safety precautions indicated on the SDS and the paint container. If you need further explanation, do not hesitate to consult our personnel or our local distributors before buying, opening, using, or disposing the product. Since product contains flammable materials, keep away from sparks and open flame. No smoking should be permitted in the area on painting.

Wear an appropriate protector (eye and face protection, protective clothing, barrier creams, etc.) when mixing, applying, or drying the paint. If products come into contact with the skin, wash thoroughly with warm water and soap or suitable cleaner. If the eyes is contaminated, irrigate with water and seek medical advice immediately.

## DISCLAIMER

The information, including data, specifications, directions and recommendations, contained in this Data Sheet describes the experiment results under controlled or specially defined conditions and we do not guarantee that the Products, when used under the actual conditions of any intended use, will produce the same results. The performance of the Products in their actual use is affected by various factors, and the User must judge whether the Products are suitable for specific uses. We do not guarantee the performance of the Products under any specific operation environment other than the performance of the Products under the conditions described in this Data Sheet.

The content of this Data Sheet, which is intended for facilitation of the User's understanding and convenience of use of the Products, is subject to change at any time without prior notice. We use our best efforts to reflect the latest and most accurate information in this Data Sheet, but we will not bear any liability whatsoever relating thereto. The User must confirm that the Data Sheet is the latest version prior to using the Products.

We do not guarantee the performance or safety of the Products when used for a purpose or use other than what is described herein. Nor will we be liable for any explanation or guarantee provided by any distributor or sales agent with respect to the Products, other than what is described in this Data Sheet.

Furthermore, each of the Products described herein is composed of various chemical substances, some of which may contain toxic and/or harmful ingredients and may cause harmful results as a result of misuse or overuse of the Products. For specific causes of risk, conditions of use, harmfulness, etc. of each of the Products, please carefully read, prior to use of the Products, the MSDS (Material Safety Data Sheet) inserted in each of the Products. We will not be liable for any accident that may be caused in violation thereof.