



**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY**

PRODUCT NAME: HPC 110 Nu-Flame A.G. Colourcoat  
SUPPLIER: Hydron Protective Coatings Ltd  
Unit 7 Phoenix Road, Wednesfield, Wolverhampton, WV11 3PX  
TEL: 01902 450950 FAX: 01902 451050

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**2. COMPOSITION/INFORMATION OF INGREDIENTS**

A 2-pack system comprising a water-based Polyacrylate clear resin solution (base) and a solvent-free Polyisocyanate hardener. The base and hardener are supplied in separate containers to be mixed together at the site of application.

	<b>% by weight</b>	<b>CAS No</b>	<b>Hazard Symbols</b>	<b>RPhrases</b>
<b>Composition of base:</b>				
Polyacrylate resin	10-30 %	none	none	none
Water & non-toxic additives	70-90 %	none	none	none
<b>Composition of hardener</b>				
Polyisocyanate resin	70-90 %	none	none	none
Polyisocyanate resin	10-30 %	28182-81-2	none	R43
Hexamethylene-1,6-diisocyanate (HDI)	<0.1 %	822-06-0 T		R23,36/37/38,42/43

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**3. HAZARDS IDENTIFICATION**

**Base:** Non-hazardous.  
**Hardener:** Contains Isocyanates. See information supplied by manufacturer.

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**4. FIRST AID MEASURES**

**Inhalation:** Remove the affected person to fresh air and allow to rest.  
**Eye Contact:** Irrigate copiously with clean, fresh water for at least 15 minutes, holding eyelids apart and seek medical advice.  
**Skin Contact:** Wash skin thoroughly with soap and water or a proprietary skin cleaner. Do not use solvents or thinners.  
**Ingestion:** If accidentally swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting.

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**5. FIRE FIGHTING MEASURES**

**Extinguishing media:** Carbon dioxide, dry powder, foam and waterspray.  
**Special Hazards:** If involved in a fire, may generate noxious or toxic vapours. Formation of carbon monoxide, nitrogen oxide, isocyanate vapour and traces of hydrogen cyanide is possible.



**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Wear full protective clothing when dealing with a spillage.  
**Environmental Protection:** Prevent from entering sewer systems, surface water and soil.  
**Method for cleaning up:** Absorb with earth, sand or other absorbent materials.

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**7. HANDLING AND STORAGE**

**Handling:** Wear goggles or a face shield, impervious gloves and protective clothing.  
**Storage:** Store in a cool, well ventilated place away from foodstuffs. Keep containers dry and tightly sealed until mixing. Avoid temperatures above 50.deg °C or below 0 deg.°C.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**During Application:**  
Wear suitable respirator if there is risk of insufficient ventilation.  
Wear suitable protective gloves  
Chemical goggles should be worn  
If in contact with skin wash with soap and water .

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

	<b>BASE.</b>	<b>HARDENER.</b>
<b>PHYSICAL STATE:</b>	Liquid resin	Clear Liquid
<b>COLOUR:</b>	off white	Clear transparent
<b>ODOUR:</b>	Weak odour	Nearly odourless
<b>VAPOUR PRESSURE:</b>	about 2.3 kPa at 20 deg°C	About 0.9 Kpa at 50 deg°C
<b>BOILING POINT:</b>	100 deg °C	170 deg°C
<b>FLASH POINT:</b>	N/A	180 deg°C
<b>DENSITY:</b>	about 1.0 g/cm <sup>3</sup> at 20 deg°C	About 1.15 g/cm <sup>3</sup> at 20 deg°C
<b>SOLUBILITY:</b>	miscible with water	Insoluble in water
<b>VISCOSITY:</b>	<1 Pa.s at 25 deg°C	<1 Pa.s at 25 deg°C

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**10. STABILITY AND REACTIVITY**

**Base:** No hazardous decomposition products when stored and handled correctly.  
**Hardener:** Reacts exothermally with amines and alcohols  
Reacts slowly with water forming Carbon Dioxide.



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**11. TOXICOLOGICAL INFORMATION**

**Base:** Non hazardous  
**Hardener:** LD50 oral, rat: >500 mg/kg. Contains Isocyanates. See information supplied by the manufacturer.

Over-exposure without the necessary precautions entails risk of concentration-dependant irritation effects on eyes, nose throat and respiratory tract. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible. Hypersensitive persons may suffer from these effects even at low concentrations.

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**12. ECOLOGICAL INFORMATION**

Environmental Precautions: Prevent from entering sewer system, surface water and soil.

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**13. DISPOSAL CONSIDERATIONS**

Waste: Burn in hazardous waste incinerator.

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**14. TRANSPORT INFORMATION**

Not classified dangerous or restricted good within the meaning of National and International transport regulations.

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**15. REGULATORY INFORMATION**

**Base:** No hazard labels, R-phrases or S-phrases required.  
**Hardener:** Contains Isocyanates. See information supplied by the manufacturer.  
Symbol Xi hazard description irritant. R23,R36/37/38,R42/43

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**16. OTHER INFORMATION**

The Base and Hardener are mixed together in the approximate ratio as follows:-

Base: 70-90 % by weight.

Hardener: 10-30 % by weight.

All the foregoing information should be regarded as being applicable to the finished paint as well as to the individual bas and hardner products

The information is accurate to the best knowledge of the company. Hydron does not accept liability whatsoever arising out of the use of the information, or any use, application, adaptation, or processing of the product described therein. Contact supplier for any further information