


Product Specification		
Product :	EC 3CTX base coat	
Description :	Clear multi purpose water-borne fire- & heat protection shield. Halogen free. 2K system	
Characteristic	Typical values	Test Method
Compound specifications of mixed components A+B 40% + 60%		
Appearance	Light brown viscous thixotropic liquid	Visual
Viscosity (20°C)	2000 - 3000 cps 3000 - 4000 cps	Brookfield RVT, spindle 5/100 rpm Brookfield RVT, spindle 5/20 rpm
Density (20°C)	1,30 g/cm ³ ± 0,05	Pyknometer
pH (20°C – 10% in water)	2 - 3	pH meter
Solids	68 % ± 1	Mettler Toledo automatic moisture analyzer
Odour	specific	Normal perception
Composition	Name	Quantity
Phosphorous-melamine based reaction product	Proprietary formulation	68% active matter
Carrier	Water	32%

Disclaimer:

EcoChem / Chemresult shall have no responsibility or liability for any claims resulting from the use and application of this product. The data contained in this document are guidelines for the use and application of the product, which are based on our experience and knowledge. For these guidelines, we cannot be held responsible or liable.

The company applying the coating is responsible for providing the product's application certificate.

Product Information	
Product :	EC 3CTX base coat
Description :	Clear multi purpose water-borne fire- & heat protection shield. Halogen free. 2K system
General information	EC 3CTX base coat is a very effective flame-retardant coating and thermal barrier. EC 3CTX has an acceptable moisture and scratch resistance. EC 3CTX film properties: colourless and transparent.
Fire-retardant system :	EC 3CTX base coat is a phosphorous based intumescent system. When exposed to heat the coat foams into a thick, non-flammable insulating char layer when exposed to fire or heat, protecting the substrate completely. Extremely low smoke emission.
Usage : Interior timber / wood surfaces	EC 3CTX base coat is especially designed to protect wooden surfaces of all kinds, keeping the original aspect of the substrate. EC 3CTX base coat can, also be used on various substrates. For indoor use only. To protect the flame retardant properties and to improve the surface properties EC 3CTX base coat is to be protected with EC 3CTX top coat. See EC 3CTX top coat data sheet for product and application information.
Application information :	<div style="text-align: center;">  <p style="color: red; font-weight: bold;">Please consult application instructions on page 3</p> </div> <p>Stir both components well and mix 40% A with 60% B (weight %) and apply within 4 hours. Surface must be free from dust, grease, wax and resins. Substrate moisture level should be lower than 15%. EC 3CTX can be applied by brush, spraying (conventional or airless) or roller. 5% dilution with water is recommended. Add on 230 μ = 300 g/m² wet coating (2 layers of 115 μ wet each are recommended). Application with Airless type Graco Mark V / 150 bar – 200 bar is recommended. Drying temperature between 15 – 30 °C. Touch-dry in approx 24 hours (20°C / 60% RH), fully dry in 48 hours. If the working area is not well ventilated, the drying time will be significantly longer. EC 3CTX is a 2K reaction product and releases formaldehyde during drying. Ventilation of the area is very important. Do not use at temperatures < 12 °C and/or RH > 70 %. EC 3CTX is thixotrope, stir well before using. Clean tools and surfaces with water.</p>
Quantity to be applied :	Example: DIN 4102-B1 or Euroclass B: (EN 13501-1 : 2007 SBI*):Solid wood plates with density of ≥ 420 kg/m ³ and a thickness of ≥ 10mm; Wood based panels with density of ≥ 600kg/m ³ and a thickness of ≥ 9mm. Apply 230 μ wet layer (= 300 g/m ² wet coating). Corresponds to 200 g/m ² dry coating. For specific information on other materials, please contact our technical support team.
Handling & safety :	Non-hazardous product under normal operational conditions. Consult the Material Safety Data Sheet before using.
Storage & shelf life :	Storage conditions: temperature: 5 – 35°C – in sea led containers. Min. 6 months shelf life.
Standard Packing :	10 kg bucket. Product is delivered as 2 components.

* SBI: single burning item

Application Instructions

EC 3CTX base coat

Recommendations for Airless spraying of EC 3CTX coating:

Equipment
Plunger pump with a minimal nominal pressure of 150 – 250 bar (cfr. Graco Marc V).
Nozzles
Nozzles 411 and 413 are recommended (0,011 – 0,013 inch / spraying angle 40°).
Filter
Remove filter(s) and sieves from the system.
Hoses
Use high pressure hoses with a diameter of 3/8 inch or 1/2 inch. Recommended max. length: 30 – 40 m.
Viscosity and Temperatures:
Recommended working area temperature for application should be 15°C – 30°C. Lower temperatures will cause higher viscosity, which will result in bad levelling aspect. Higher temperatures will cause lower viscosity, which will result in dripping off. Before use, store the product accordingly in a heated place for at least 24 hours, to make sure the product temperature is within the recommended range. Max. height distance between spraying pistol and pump: 10 m. Dilution with 5% water is recommended. Keep in mind that in this case the material can drip off from vertical surfaces. It is recommended to work with 2 layers of 115 μ wet (= 150g wet/m ² each).
Distance
Nozzle distance from the substrate while spraying: ca. 40 cm