

# NORPOL NTA HX3

Iso / NPG based Fire Retardant Topcoat

## DESCRIPTION

**NORPOL NTA-HX3** is a high quality non-halogenated fire retardant topcoat based on Iso/NPG (Isophthalic / neo-pentyl glycol) polyester resin, gives superior water resistance and better mechanical properties.

**NORPOL NTA-HX3** is a topcoat version of Norpol NGA HX3 and will have the same fire retardant properties.

**NORPOL NTA HX3** is approved by Det Norske Veritas for Construction and Certification of lifeboats, grade 2.

Recommended peroxide dosage: 1.30 – 2.00 %  
 Recommended film thickness: 0.55 – 0.85 mm (wet film)  
 Oxygen index: 26.0 – 27.0 %

## TYPICAL PROPERTIES

### PHYSICAL DATA IN LIQUID STATE AT 23°C

Properties	Unit	Hand quality	Test method
Viscosity - Brookfield RVF sp.4/4 rpm - Cone & Plate	mPa·s(cP) mPa·s(cP)	14000-30000 500-700	ASTM D 2196-86 ISO 2884-1999
Density	g/cm <sup>3</sup>	1.3-1.5	ISO 2811-2001
Flash point	°C	26	ASTM D 3278-95
Gel time: 1.5% NORPOL PEROXIDE 1	minutes	10-25	G020
Storage stability from date of production	months	6	G180

### MECHANICAL/PHYSICAL DATA FOR THE GELCOAT'S BASE POLYESTER RESIN IN CURED STATE

Properties	Unit	Value	Test method
Tensile strength	MPa	min. 65	ISO 527-1993
Tensile modulus	MPa	min. 3000	ISO 527-1993
Tensile elongation	%	min. 3.0	ISO 527-1993
Heat distortion temp.	°C	min. 90	ISO 75-1993
Hardness Barcol	-	min. 40	ASTM D 2583-99
Water absorption	mg/test piece	max. 65	Det norske Veritas 1981

The information herein is general information designed to assist customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. We require customers to inspect and test our products before use and to satisfy themselves as to contents and suitability for their specific applications. We warrant that our products will meet our written specifications. **Nothing herein shall constitute any other warranty express or implied, including any warranty of merchantability or fitness for a particular purpose**, nor is any protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is limited to replacement of our materials and in no event shall we be liable for special, incidental or consequential damages.

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**NORPOL® NTA HX3**

**RECOMMENDED PEROXIDE:**

All NORPOL® grades are Quality Controlled with the specified Peroxide. However, alternatives are available and all users should be aware that a single Peroxide formulation cannot provide optimum results in all resin systems. The interaction between the Peroxide and the inhibitor/accelerator systems used in our products is complex and varies from resin to resin. Consequently the gel and cure characteristics provided by alternate Peroxide can vary greatly from those specified. It is, therefore, absolutely essential that the user evaluate each alternate Peroxide in each product before full-scale manufacture is started.

Through thorough laboratory work we have found that some types of Peroxide formulation (such as the acetyl acetones) can lead to distinct cured colour variation. We would, therefore, strongly recommend the use of a single peroxide (PEROXIDE No.1) especially where consistent light colours are required for the finished articles.

Safety Data Bulletin No. 2 applies to NORPOL® NGA HX3

**STORAGE**

To ensure maximum stability and maintain optimum resin properties, NORPOL® gelcoats should be stored in closed containers at temperatures below 25°C and away from heat sources and sunlight. All storage areas and containers should conform to local fire and building codes. Drum stock should be stored away from all sources of flame or combustion. Inventory levels should be kept to a reasonable minimum with first-in, first-out stock rotation.

**PACKAGING FORM**

Non-returnable 225 kg metal drums.  
Non-returnable 20.0 kg metal pails may be delivered on request

**SAFETY**

**READ AND UNDERSTAND THE MATERIAL SAFETY DATA SHEET BEFORE WORKING WITH THIS PRODUCT.**

Obtain a copy of the material safety data sheet on this product before use. Material safety data sheets are available from your Reichhold sales representative. Such information should be requested from suppliers of any chemical and understood before working with the material.

**DIRECTLY MIXING ANY ORGANIC PEROXIDE WITH A METAL SOAP, AMINE, OR OTHER POLYMERIZATION ACCELERATOR OR PROMOTER WILL RESULT IN VIOLENT DECOMPOSITION.**

The information herein is general information designed to assist customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. We require customers to inspect and test our products before use and to satisfy themselves as to contents and suitability for their specific applications. We warrant that our products will meet our written specifications. **Nothing herein shall constitute any other warranty express or implied, including any warranty of merchantability or fitness for a particular purpose**, nor is any protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is limited to replacement of our materials and in no event shall we be liable for special, incidental or consequential damages.

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