



CERTIFICATE OF APPROVAL OF A POLYESTER RESIN

Certificate No. **MATS/4655/1**

This certificate is issued to the company named below. The resin described has been examined in accordance with the requirements of Lloyd's Register and is approved for use in constructions built under Lloyd's Register's survey. This approval is subject to Lloyd's Register being informed of any changes in or modifications to the resin and the product being used in accordance with the manufacturer's instructions and with the relevant requirements of Lloyd's Register's Rules and Regulations.

Company **SIRCA S.P.A.**
S.DONO DI MASSANZAGO
ITALY

Trade name **SIRCA**

Resin **HN 380 TAX SERIES**

Application **Laminating resin**

Type **Isophthalic polyester resin**

Characteristics

Applicable LR Rules **Rules and Regulations for Classification of Special Service Craft**

Approved Variants **See attached Appendix**

Valid until **6 January 2020**

Date **7 January 2015**

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M Jogia
Lead Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group



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Appendix to certificate MATS/4655/1

Approved Variants

HN 380 TAX 15	Pre-accelerated, thixotropic, sprayable, gel time, short drift
HN 380 TAX 20	Pre-accelerated, thixotropic, sprayable, gel time, short drift
HN 380 TAX 30	Pre-accelerated, thixotropic, sprayable, gel time, short drift
HN 380 TAX 25	Pre-accelerated, thixotropic, sprayable, gel time, short drift
HN 380 TA 30	Pre-accelerated, thixotropic, sprayable, gel time
HN 380 TA 15	Pre-accelerated, thixotropic, sprayable, gel time
HN 380 TA 20	Pre-accelerated, thixotropic, sprayable, gel time
HN 380 TA 25	Pre-accelerated, thixotropic, sprayable, gel time
HN 380 TA 35	Pre-accelerated, thixotropic, sprayable, gel time
HN 380 TAV 15	Pre-accelerated, thixotropic, sprayable, gel time, viscosity
HN 380 TAX 35	Pre-accelerated, thixotropic, sprayable, gel time, short drift
HN 380 TAV 20	Pre-accelerated, thixotropic, sprayable, gel time, viscosity
HN 380 TAV 25	Pre-accelerated, thixotropic, sprayable, gel time, viscosity
HN 380 TAZ 15	Pre-accelerated, thixotropic, sprayable, gel time, low styrene content
HN 380 TAZ 20	Pre-accelerated, thixotropic, sprayable, gel time, low styrene content
HN 380 TAZ 25	Pre-accelerated, thixotropic, sprayable, gel time, low styrene content

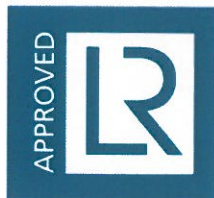
Tested grade HN 380 TAX 25

Date 7 January 2015

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A handwritten signature in black ink, appearing to read 'M. Jogia'.

M. Jogia
Lead Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group



CERTIFICATE OF APPROVAL OF A VINYLESTER RESIN

Certificate No. **MATS/3233/3**

This certificate is issued to the company named below. The resin described has been examined in accordance with the requirements of Lloyd's Register and is approved for use in constructions built under Lloyd's Register's survey. This approval is subject to Lloyd's Register being informed of any changes in or modifications to the resin and the product being used in accordance with the manufacturer's instructions and with the relevant requirements of Lloyd's Register's Rules and Regulations.

Company	SIRCA S.P.A. S.DONO DI MASSANZAGO ITALY	
Trade name	SIRCA	
Resin	HN 800 TA31	
Application	Laminating resin	
Type	Vinyl Ester Resin	
Characteristics	Pre-accelerated, Thixotropic, Sprayable	
Applicable LR Rules	Rules and Regulations for Classification of Special Service Craft	
Approved Variants	HN800 TAB 31	Without catalyst indicator
	HQ 800 A 45	Non-Thixotropic version
	HQ800 A 5	Non-Thixotropic version, gel time variant

Manufacturers instructions for catalysation must be followed

Valid until **18 November 2021**

Date **20 July 2017**

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