



# CERTIFICATE OF APPROVAL OF A POLYESTER RESIN

Certificate No. **MATS/3515/2**

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	<b>SIRCA S.P.A. S.DONO DI MASSANZAGO ITALY</b>
Trade name	<b>SIRCA</b>
Resin	<b>HN 103 TAX SERIES</b>
Application	<b>Laminating resin</b>
Type	<b>Orthophthalic polyester resin</b>
Characteristics	<b>Pre-accelerated, Thixotropic, Sprayable</b>
Applicable LR Rules	<b>Rules and Regulations for Classification of Special Service Craft</b>
Approved Variants	<b>See attached Appendix</b>

Valid until **18 November 2016**

Date **21 December 2011**

**M Jogiya**

Surveyor to Lloyd's Register EMEA  
On behalf of Lloyd's Register North America Inc.

**Appendix to certificate MATS/3515/2**

**Approved Variants**

<b>HN 103 TAX 20</b>	<b>gel time variant</b>
<b>HN 103 TAX 15</b>	<b>gel time variant</b>
<b>HN 103 TAX 30</b>	<b>gel time variant</b>
<b>HN 103 TAXB 15</b>	<b>as HN 103 TAX 15 but no catalyst indicator</b>
<b>HN 103 TAXB 20</b>	<b>as HN 103 TA 20 but no catalyst indicator</b>
<b>HN 103 TAXB 25</b>	<b>as HN 103 TAX 25 but no catalyst indicator</b>
<b>HN 103 TAXB 30</b>	<b>as HN 103 TAX 30 but no catalyst indicator</b>
<b>HN 103 TA 10</b>	<b>gel time e type of acceleration variant</b>
<b>HN 103 TA 15</b>	<b>gel time e type of acceleration variant</b>
<b>HN 103 TA 20</b>	<b>gel time e type of acceleration variant</b>
<b>HN 103 TA 25</b>	<b>gel time e type of acceleration variant</b>
<b>HN 103 TA 30</b>	<b>gel time e type of acceleration variant</b>
<b>HN 103 TA 35</b>	<b>gel time e type of acceleration variant</b>
<b>HN 103 TAB 20</b>	<b>as HN 103 TA 20 but no catalyst indicator</b>
<b>HN 103 TAL 15</b>	<b>gel time e type acceleration variant plus low exotherm peak additives</b>
<b>HN 103 TAL 20</b>	<b>gel time e type acceleration variant plus low exotherm peak additives</b>
<b>HN 103 TAL 30</b>	<b>gel time e type acceleration variant plus low exotherm peak additives</b>
<b>HN 103 TAL 35</b>	<b>gel time e type acceleration variant plus low exotherm peak additives</b>
<b>HN 103 TAEX 15</b>	<b>gel time variant and low styrene emission</b>
<b>HN 103 TAEX 20</b>	<b>gel time variant and low styrene emission</b>
<b>HN 103 TAEX 25</b>	<b>gel time variant and low styrene emission</b>
<b>HN 103 TAEX 30</b>	<b>gel time variant and low styrene emission</b>
<b>HN 103 TAX 25</b>	<b>gel time variant, tested grade</b>

Date 21 December 2011



**M Jogi**

Surveyor to Lloyd's Register EMEA  
On behalf of Lloyd's Register North America Inc.