



Nimir Specialty Chemicals FZE

NIMPOL IO3 NA

Nimpol 103 NA is a medium thixotropic orthophthalic, unsaturated polyester resin. It imparts outstanding water resistance and it is suitable for building boats, water tanks, bath tubs, shower trays etc.

Recommendation for Laminating:

Parts by weight	
Nimpol 103 NA	100
Catalyst M 50	2
Cobalt Octate 1%	2

Application:

- To start the curing reaction, first mix the cobalt octate thoroughly with the resin to disperse all the components evenly.
- The stirring must be thorough and careful as any air introduced into the resin mix affects the quality of the final moulding.
- Catalyst M 50 should be added to the resin system shortly before application to initiate the polymerization reaction.
- It is important to add the catalyst in carefully measured amounts to control the polymerization. Too much catalyst will cause too rapid a gelation time, whereas too little catalyst will result in undercure.
- Care must be taken to avoid explosive violence. Do not mix catalyst and cobalt octate or any accelerator together.

Properties of Liquid Resins:

Appearance	Cloudy
Colour	Pale yellow
Viscosity at 25°C (Brookfield, sp. 3 @ 60rpm)	450 - 550 cps
Gel Time at 25°C	16 ± 3 min.
Acid value mg KOH/g	24 ± 2
Solid content %	61 ± 2
Specific Gravity at 25°C	1.11 - 1.13

Properties of fully cured resins (unfilled casting)

Barcol hardness (Model GYZJ 934-1)	43 – 47
Water absorption 24h at 23°C	15 – 18 mg
Elongation at break at 20°C	1.9 – 2.2 %
Test method as in BS 2782:1980	

Packaging:

Nimpol 103 NA is supplied in 225 kg new steel drums with close top.

Safety:

Due attention should be given to the precautions for handling chemicals provided in our Material Safety Data Sheet

Remarks:

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Nimir Specialty Chemicals FZE

NIMPOL IO3 PA

Nimpol 103 PA is a medium thixotropic, orthophthalic unsaturated polyester resin. The resin is pre-accelerated. It imparts outstanding water resistance and it is suitable for building boats, water tanks, bath tubs shower trays etc.

Recommendation for Laminating:

Parts by weight	
Nimpol 103 PA	100
Catalyst M 50	2

Application:

- To start the curing reaction, take 100 parts of resin.
- Catalyst M 50 should be added to the resin system shortly before application to initiate the polymerization reaction.
- It is important to add the catalyst in carefully measured amounts to control the polymerization. Too much catalyst will cause too rapid a gelation time, whereas too little catalyst will result in undercure.
- Care must be taken to avoid explosive violence. Do not mix catalyst and cobalt octate or any accelerator together.

Properties of Liquid Resins:

Appearance	Cloudy
Colour	Pinkish
Viscosity at 25°C (Brookfield, sp. 3 @ 60rpm)	450 - 550 cps
Gel Time at 25°C	16 ± 3 min.
Acid value mg KOH/g	24 ± 2
Solid content %	61 ± 2
Specific Gravity at 25°C	1.11 - 1.13

Properties of fully cured resins (unfilled casting)

Barcol hardness (Model GYZJ 934-1)	43 – 47
Water absorption 24 h at 23°C	15 – 18 mg
Elongation at break at 20°C	1.9 – 2.2 %
Test method as in BS 2782:1980	

Packaging:

Nimpol 103 PA is supplied in 225 kg new steel drums with close top.

Safety:

Due attention should be given to the precautions for handling chemicals provided in our Material Safety Data Sheet

Remarks:

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Nimir Specialty Chemicals FZE

NIMPOL IO4 NA

Nimpol 104 NA is a clear non thixotropic, orthophthalic unsaturated polyester resin. It imparts outstanding water resistance and it is suitable for building boats, water tanks, bath tubs shower trays etc.

Recommendation for Laminating:

Parts by weight	
Nimpol 104 NA	100
Catalyst M 50	2
Cobalt Octate 1%	2

Application:

- To start the curing reaction, first mix the cobalt octate thoroughly with the resin to disperse all the components evenly.
- The stirring must be thorough and careful as any air introduced into the resin mix affects the quality of the final moulding.
- Catalyst M 50 should be added to the resin system shortly before application to initiate the polymerization reaction.
- It is important to add the catalyst in carefully measured amounts to control the polymerization. Too much catalyst will cause too rapid a gelation time, whereas too little catalyst will result in undercure.
- Care must be taken to avoid explosive violence. Do not mix catalyst and cobalt octate or any accelerator together.

Properties of Liquid Resins:

Appearance	Cloudy
Colour	Pale yellow
Viscosity at 25°C (Brookfield, sp. 3 @ 60rpm)	350 – 450 cps
Gel Time at 25°C	16 ± 3 min.
Acid value mg KOH/g	24 ± 2
Solid content %	61 ± 2
Specific Gravity at 25°C	1.10 – 1.12

Properties of fully cured resins (unfilled casting)

Barcol hardness (Model GYZJ 934-1)	43 – 47
Water absorption 24 h at 23°C	15 – 18 mg
Elongation at break at 20°C	1.9 – 2.2 %
Test method as in BS 2782:1980	

Packaging:

Nimpol 104 NA is supplied in 225 kg new steel drums with close top.

Safety:

Due attention should be given to the precautions for handling chemicals provided in our Material Safety Data Sheet

Remarks:

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Nimir Specialty Chemicals FZE

NIMPOL IO4 PA

Nimpol 104 PA is a clear non thixotropic, orthophthalic unsaturated polyester resin. The resin is pre-accelerated. It imparts outstanding water resistance and it is suitable for building boats, water tanks, bath tubs shower trays etc.

Recommendation for Laminating:

Parts by weight	
Nimpol 104 PA	100
Catalyst M 50	2

Application:

- To start the curing reaction, Take 100 parts of resin.
- Catalyst M 50 should be added to the resin system shortly before application to initiate the polymerization reaction.
- It is important to add the catalyst in carefully measured amounts to control the polymerization. Too much catalyst will cause too rapid a gelation time, whereas too little catalyst will result in under cure.
- Care must be taken to avoid explosive violence. Do not mix catalyst and cobalt octate or any accelerator together.

Properties of Liquid Resins:

Appearance	Cloudy
Colour	Pinkish
Viscosity at 25°C (Brookfield, sp. 3 @ 60rpm)	350 – 450 cps
Gel Time at 25°C	16 ± 3 min.
Acid value mg KOH/g	24 ± 2
Solid content %	61 ± 2
Specific Gravity at 25°C	1.10 – 1.12

Properties of fully cured resins (unfilled casting)

Barcol hardness (Model GYZJ 934-1)	43 – 47
Water absorption 24 h at 23°C	15 – 18 mg
Elongation at break at 20°C	1.9 – 2.2 %
Test method as in BS 2782:1980	

Packaging:

Nimpol 104 PA is supplied in 225 kg new steel drums with close top.

Safety:

Due attention should be given to the precautions for handling chemicals provided in our Material Safety Data Sheet

Remarks:

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Nimir Specialty Chemicals FZE

NIMPOL IO5 NA

Nimpol 105 NA is a high thixotropic, orthophthalic unsaturated polyester resin. The outstanding water resistance makes it suitable for building of boats in tropical climates. It is used in special applications where high weather resistance is required.

Recommendation for Laminating:

Parts by weight	
Nimpol 105 NA	100
Catalyst M 50	2
Cobalt Octate 1%	2

Application:

- To start the curing reaction, first mix the cobalt octate thoroughly with the resin to disperse all the components evenly.
- The stirring must be thorough and careful as any air introduced into the resin mix affects the quality of the final moulding.
- Catalyst M 50 should be added to the resin system shortly before application to initiate the polymerization reaction.
- It is important to add the catalyst in carefully measured amounts to control the polymerization. Too much catalyst will cause too rapid a gelation time, whereas too little catalyst will result in undercure.
- Care must be taken to avoid explosive violence. Do not mix catalyst and cobalt octate or any accelerator together.

Properties of Liquid Resins:

Appearance	Cloudy
Colour	Yellowish
Viscosity at 25°C (Brookfield, sp. 3 @ 60rpm)	750 - 850 cps
Gel Time at 25°C	17 ± 3 min.
Acid value mg KOH/g	19 ± 3
Solid content %	60 ± 3
Specific Gravity at 25°C	1.11-1.13

Properties of fully cured resins (unfilled casting)

Barcol hardness (Model GYZJ 934-1)	45 - 50
Water absorption 24 hr at 23°C	16 – 18 mg
Elongation at break	2.0 - 2.2 %
Test method as in BS 2782:1980	

Packaging:

Nimpol 105 NA is supplied in 225 kg new steel drums with close top.

Safety:

Due attention should be given to the precautions for handling chemicals provided in our Material Safety Data Sheet

Remarks:

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Nimir Specialty Chemicals FZE

NIMPOL IO5 PA

Nimpol 105 PA is a high thixotropic, orthophthalic unsaturated polyester resin. The resin is pre-accelerated. Its outstanding water resistance property makes it suitable for building of boats in tropical climates. It is also used in special applications where high weather resistance is required.

Recommendation for Laminating:

Parts by weight	
Nimpol 105 PA	100
Catalyst M 50	2

Application:

- To start the curing reaction, Take 100 parts of the resin.
- Catalyst M 50 should be added to the resin system shortly before application to initiate the polymerization reaction.
- It is important to add the catalyst in carefully measured amounts to control the polymerization. Too much catalyst will cause too rapid a gelation time, whereas too little catalyst will result in under cure.
- Care must be taken to avoid explosive violence. Do not mix catalyst and cobalt octate or any accelerator together.

Properties of Liquid Resins:

Appearance	Cloudy
Colour	Pinkish
Viscosity at 25°C (Brookfield, sp. 3 @ 60rpm)	750 - 850 cps
Gel Time at 25°C	17 ± 3 min.
Acid value mg KOH/g	19 ± 3
Solid content %	60 ± 3
Specific Gravity at 25°C	1.11-1.13

Properties of fully cured resins (unfilled casting)

Barcol hardness (Model GYZJ 934-1)	45 - 50
Water absorption 24 hr at 23°C	16 - 18 mg
Elongation at break	2.0 - 2.2 %
Test method as in BS 2782:1980	

Packaging:

Nimpol 105 PA is supplied in 225 kg new steel drums with close top.

Safety:

Due attention should be given to the precautions for handling chemicals provided in our Material Safety Data Sheet

Remarks:

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Nimir Specialty Chemicals FZE

NIMPOL 202 NA

Nimpol 202 NA is a clear isophthalic, unsaturated polyester resin. It is highly weather resistant. Due to its outstanding stability and excellent performance it is used in pipes, tanks and ducting using filament winding, extrusion, pultrusion centrifugal moulding or contact moulding methods.

Recommendation for Laminating:

Parts by weight	
Nimpol 202 NA	100
Catalyst M 50	1.5
Cobalt Octate 1%	1.5

Application:

- To start the curing reaction, first mix the cobalt octate thoroughly with the resin to disperse all the components evenly.
- The stirring must be thorough and careful as any air introduced into the resin mix affects the quality of the final moulding.
- Catalyst M 50 should be added to the resin system shortly before application to initiate the polymerization reaction.
- It is important to add the catalyst in carefully measured amounts to control the polymerization. Too much catalyst will cause too rapid a gelation time, whereas too little catalyst will result in undercure.
- Care must be taken to avoid explosive violence. Do not mix catalyst and cobalt octate or any accelerator together.

Properties of Liquid Resins:

Appearance	Cloudy
Colour	Yellowish
Viscosity at 25°C (Brookfield, sp. 3 @ 60rpm)	450 – 550 cps
Gel Time at 25°C	13 ± 3 min.
Acid value mg KOH/g	17 ± 2
Solid content %	60 ± 2
Specific Gravity at 25°C	1.10-1.11

Properties of fully cured resins (unfilled casting)

Barcol hardness (Model GYZJ 934-1)	44 – 48
Water absorption 24 h at 23°C	15 – 18 mg
Elongation at break at 20°C	4.0 – 4.5 %
Test method as in BS 2782:1980	

Packaging:

Nimpol 202 NA is supplied in 225 kg new steel drums with close top.

Safety:

Due attention should be given to the precautions for handling chemicals provided in our Material Safety Data Sheet

Remarks:

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Nimir Specialty Chemicals FZE

NIMPOL 203 NA

Nimpol 203 NA is a high thixotropic, isophthalic unsaturated polyester resin. It is a versatile resin specially designed for use in tropical climates. It gives excellent results in applications where high performance water and chemical resistance is required. The outstanding resistance to fuel oils makes it suitable for use in fuel tanks and similar chemical storage when fully cured. It possess non toxic behavior and used for the manufacture of food containers. It is also used for the fabrication of high performance boat hulls. It can be applied by either brush or spray equipment.

Recommendation for Laminating:

Parts by weight	
Nimpol 203 NA	100
Catalyst M 50	2
Cobalt Octate 1%	1.5

Application:

- To start the curing reaction, first mix the cobalt octate thoroughly with the resin to disperse all the components evenly.
- The stirring must be thorough and careful as any air introduced into the resin mix affects the quality of the final moulding.
- Catalyst M 50 should be added to the resin system shortly before application to initiate the polymerization reaction.
- It is important to add the catalyst in carefully measured amounts to control the polymerization. Too much catalyst will cause too rapid a gelation time, whereas too little catalyst will result in undercure.
- Care must be taken to avoid explosive violence. Do not mix catalyst and cobalt octate or any accelerator together.

Properties of Liquid Resins:

Appearance	Cloudy
Colour	Yellowish
Viscosity at 25°C (Brookfield, sp. 3 @ 60rpm)	850 – 1000 cps
Gel Time at 25°C	17 ± 2 min.
Acid value mg KOH/g	24 ± 2
Solid content %	58 ± 2
Specific Gravity at 25°C	1.10–1.12

Properties of fully cured resins (unfilled casting)

Barcol hardness (Model GYZJ 934-1)	43 – 47
Water absorption 24 hr at 23°C	17 - 20 mg
Elongation at break at 20°C	3.0 – 3.8 %
Test method as in BS 2782:1980	

Packaging:

Nimpol 203 NA is supplied in 225 kg new steel drums with close top.

Safety:

Due attention should be given to the precautions for handling chemicals provided in our Material Safety Data Sheet

Remarks:

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Nimir Specialty Chemicals FZE

NIMPOL GELCOAT 405 NA

Nimpol Gelcoat 405 NA is a thixotropic, isophthalic unsaturated polyester gelcoat resin. It imparts excellent durability and chemical resistance and can be used in tropical climates. The outstanding water resistance makes it suitable for boat hulls that remain immersed in water. It is also used for the top coat of the laminate.

Recommendation for Laminating:

Parts by weight	
Nimpol Gelcoat 405 NA	100
Catalyst M 50	2
Cobalt Octate 1%	2

Application:

- To start the curing reaction, first mix the cobalt octate thoroughly with the gelcoat to disperse all the components evenly.
- The stirring must be thorough and careful as any air introduced into the resin mix affects the quality of the final moulding.
- Catalyst M 50 should be added to the resin system shortly before application to initiate the polymerization reaction.
- It is important to add the catalyst in carefully measured amounts to control the polymerization. Too much catalyst will cause too rapid a gelation time, whereas too little catalyst will result in undercure.
- Care must be taken to avoid explosive violence. Do not mix catalyst and cobalt octate or any accelerator together.

Properties of Liquid Resins:

Appearance	Cloudy
Colour	Yellowish
Viscosity	50000± 4000 cps
Gel Time at 25°C	17 ± 2 min.
Acid value mg KOH/g	20 ± 2
Solid content %	65 ± 2
Specific Gravity at 25°C	1.10 – 1.12

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Properties of fully cured resins (unfilled casting)

Barcol hardness (Model GYZJ 934-1)	41 - 43
Water absorption 24 hr at 23°C	16 – 18 mg
Elongation at break at 20°C	2.8 - 3.0 %
Test method as in BS 2782:1980	

Packaging:

Nimpol Gelcoat 405 NA is supplied in 200 Kg new steel drums with open top.

Safety:

Due attention should be given to the precautions for handling chemicals provided in our Material Safety Data Sheet

Remarks:

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