

Neogel® 8373-W-XXXX

ISO-NPG GELCOAT

Neogel® 8373-W-XXXX has been developed especially for boat building, swimming pools, sanitary ware and furniture.

Benefits

Neogel® 8373-W-XXXX is an iso/Neopentylglycol gelcoat which has a combination of important characteristics: easy application, good resistance to long immersion in water (good blister resistance), excellent weather ability (less yellowing), air release, good mechanical properties, conforms USA ANSI-Z-124-1, approved by DNV Italia and Italian RINA.

Application Characteristics

Neogel® 8373-W-XXXX is pre-accelerated thixotropic, ready for use and available in a wide range of colours, in the following types:

- Spray type (Neogel® 8373-W-XXXX)
- Brush type (Neogel® 8373-W-XXXX H)

It can also be supplied in a standard or additional versions on request:

- Spray (Paraffinated)
- Brush (Paraffinated)

The Spray type can be applied with conventional equipment with these recommended settings:

- Spray gun (nozzle ϕ 2.0-3.5 mm, pressure 4-5 bar)
- Airless equipment (nozzle types: 18/40-21/40)

In order to obtain optimum performance it is advisable to operate as follows:

- Temperature between 18°C and 25°C
- Cure with recommended MEKP* 50% solution, adjust amount between 1.0-2.5%
- Thickness of the film 600-800g/m²

*Butanox M50 (Akzo Nobel)

Packaging, Storage and Handling Conditions

Neogel® 8373-W-XXXX is available in about 22 kg package. It should be stored in the original closed packaging at a temperature not exceeding 20°C out of direct sunlight, and away from direct heat sources.

Under these conditions, the product has a stability of 3 months from dispatch date. However AFAST versions or black and green/blue dark colors have a stability of two months from dispatch date under the recommended conditions.

Neogel® 8373-W-XXXX has a Flash Point of >21°C. It is FLAMMABLE and should be kept away from naked flames. Please refer to the SAFETY DATA SHEET.

Application Methods



Brush



Roller



Air atomised spray gun



Airless

Specification of Base Gelcoat

Characteristics	Test Method	Unit	Typical Value Base Gelcoat Brush	Typical Value Base Gelcoat Spray
Appearance	TM 2265	—	Thixotropic liquid	Thixotropic liquid
Viscosity at 25°C (#4, rpm2)	TM 5042	mPa.s		42500-52000
Viscosity at 25°C (#4, rpm20)	TM 5042	mPa.s	5700-7300	3500-5200
Geltime at 25°C	TM 2245	minutes	12-18	8-15

Characteristics of Cured Product

Characteristics	Test Method	Unit	Typical Value White Gelcoat Brush	Typical Value White Gelcoat Spray
Barcol Hardness (*) (**)	D 2583-67	—	40-45 40-45	20-25 40-45
Tensile Strength (**)	D 638	MPa	50±5	50±5
Tensile Modulus (**)	D 638	MPa	3650±150	3800±150
Elongation at Break (**)	D 639	%	≥2.5	≥2.5
Flexural Strength (**)	D 790	MPa	95±5	85±5
Flexural Modulus (**)	D 790	MPa	3300±150	3600±150
HDT 66 psi (**)	D 648	°C	≥95	≥95

(*) after 20 hours at 20°C, (**) after 16 hours at 40°C

Water Absorption of Cured Product (**)

Method or Institute for Approval	Unit	Typical Value White Gelcoat Brush	Typical Value White Gelcoat Spray
RINA/Lloyd's Register	mg	<60	<60
RINA/Lloyd's Register	%	<0.40	<0.40
Det Norske Veritas	mg	<80	<80
Det Norske Veritas	%	<0.30	<0.30
ASTM D 570	mg	<11	<12

(**) after 16 hours at 40°C

Storage Guidelines

The resin should be stored indoors in the original, unopened and undamaged packaging, in a dry place at temperatures between 5°C and 30°C.

Shelf life is reduced at higher temperatures and the properties of the resin might change during storage.

The shelf life of styrene containing unsaturated polyesters will be significantly reduced when exposed to light.

Store in dark and in 100% light tight containers only.

Material Safety

A Material Safety Data Sheet of this product is available on request.

Test Methods

Test methods (TM) referred to in the table(s) are available on request.

ISO 9001:2015 Certified

The Quality Management Systems at every AOC manufacturing facility have been certified as meeting ISO 9001:2015 standards. This certification recognizes that each AOC facility has an internationally accepted model in place for managing and assuring quality. We follow the practices set forth in this model to add value to the resins we make for our customers.

About AOC

AOC is the leading global supplier of resins and specialty materials which enable customers to create robust, durable and versatile products and components. With strong capabilities around the world in manufacturing and science, the company works closely with customers to deliver unrivaled quality, service and reliability for today, and create innovative solutions for tomorrow. Partner with AOC and we will work together to find the right solutions for your business.

AOC. Trusted Solutions

Brochures

You can find additional information through Product Guide. For detailed information on the system solution, please consult our Gelcoat Brochure. Both brochures are available from our Business Technical Supports Engineer and Account Manager.

AOC CHINA Jingling AOC Resins Co.,Ltd

No. 188, Chongfu Road, Nanjing Industrial Park, 210047, Nanjing, Jiangsu, China

Phone: +86 25 85493888

Fax: +86 25 85561724

Email: china@aocresins.com

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