

Series

PAD PRINTING HARDENER

Main features

1000H-N Green:

Transparent liquid slightly opaline

This hardener has a free monomer diisocyanate content below 0,1%

- . No yellowing
- . Low viscosity
- . 100% of dry residue
- . It does not solvents, so it is VOC free
- . Long pot-life
- . Very low content of free monomer
- . Transparent aspect

1000H:

Aromatic multipurpose hardener, limpid transparent and straw-coloured, it is used for the preparation of polyurethane, air-dried, two-component inks.

1000H-N:

Aliphatic multipurpose hardener, limpid, transparent, it is used for the preparation of polyurethane, air-dried, two-component inks.

1000H-N-00:

Aliphatic multipurpose hardener to 100%, free of solvent, limpid, transparent, it is used for the preparation of one or two component inks that dried at room temperature. Recommended for series mentioned in attached table.

The dosage of XFH-N-00 is lower in comparison of the others hardeners, in this case the printed ink result more opaque.

1000H-GL:

Silane diamine-functional hardener, limpid, liquid and transparent, it is used for the preparation of two-component inks. Recommended for epoxy inks, that have to adhere on inorganic surfaces.

1000H-SG:

Transparent hardener, made up by modified cycloaliphatic amine

- . low viscosity
 - . great surface appearance
 - . good solidity to redness
 - . good mechanical performance
- Polymerization at room temperature.

1000H-SG hardener is slightly hygroscopic and it must be stored at room temperature and in conditions without humidity, in closed cans.

In these conditions, it has a pot life of 1 year approx.

Outdoor resistance

1000H-N Green:

Non-yellowing and suitable for objects which must be exposed outdoors.

1000H:

It tends to yellowing. Not suitable for outdoor application.

1000H-N:

It does not tend to yellowing. Suitable for outdoor application.

1000H-N-00:

It does not tend to yellowing. Suitable for outdoor application.

1000H-GL:

Good resistance to yellowing. Not suitable for outdoor application.

1000H-SG:

It does not tend to yellowing. Suitable for outdoor application.

Series

PAD PRINTING HARDENER

Drying process

1000H-N Green:

Curing time depends on the ink it is mixed with.

Heat helps to speed up the process.

In almost all the systems used, pot-life is around 8-9 working hours and depends on the environmental conditions.

High humidity reduces the pot-life.

1000H:

Polymerization starts at about 10°C.

1000H-N:

Polymerization starts at about 20°C.

1000H-N-OO:

Polymerization starts at about 20°C.

1000H-GL:

It can polymerize by air or in warm-air circulation furnace at a maximum temperature of 120-130°C for about 5-10 minutes.

1000H-SG:

Polymerization time depends on the ink it is mixed with.

Heat helps to speed up the process.

Mechanical and chemical solidity

1000H-N Green, 1000H, 1000H-N and 1000H-N-OO:

When mixed with inks, these hardeners give excellent solidity to chemical agents and excellent mechanical solidity depending on the polymer they react with.

1000H-GL:

Excellent water resistance.

When mixed with inks, this hardener gives excellent solidity to chemical agents and excellent mechanical solidity depending on the polymer they react with.

1000H-SG:

Mixed with 2020-GL series, it gives great solidity to the chemical agents and great mechanical solidity.

Recap

SERIES	TYPE	HARDENER	QUANTITY	NOTE
1001	two-component	1000H-N Green	17%	for outdoor applications.
		1000H-N	33%	isocyanate content < 0,1%
		1000H-N-OO	20%	pot-life 6-8 hours
1002	two-component	1000H-N Green	10%	for outdoor applications.
		1000H	25%	isocyanate content < 0,1%
		1000H-N-OO	14%	
1009	two-component	1000H-GL	5%	
1011	one and two-component	1000H-N Green	6%	for outdoor applications.
		1000H	10%	isocyanate content < 0,1%
		1000H-N	10%	for outdoor applications

Series

PAD PRINTING HARDENER

1013	one and two-component	1000H-N Green	5%	for outdoor applications. isocyanate content < 0,1%
		1000H	10%	
		1000H-N	10%	
1013-C	one and two-component	1000H-N Green	5%	for outdoor applications. isocyanate content < 0,1%
		1000H	10%	
		1000H-N	10%	for outdoor applications
1014	one and two-component	1000H-N Green	6%	for outdoor applications. isocyanate content < 0,1%
		1000H	10%	
		1000H-N	10%	for outdoor applications
1016	one and two-component	1000H-N Green	5%	for outdoor applications. isocyanate content < 0,1%
		1000H	10%	
		1000H-N	10%	for outdoor applications
103	one and two-component	1000H-N Green	6%	for outdoor applications. isocyanate content < 0,1%
		1000H	10%	
		1000H-N	10%	better elasticity and fastness for outdoor applications
2000 PP	one and two-component	1000H-N Green	8%	for outdoor applications. isocyanate content < 0,1%
		1000H	10%	
2001	one and two-component	1000H-N Green	6%	for outdoor applications. isocyanate content < 0,1%
		1000H	10%	
		1000H-N	10%	for outdoor applications
2004	one and two-component	1000H-N Green	8%	for outdoor applications. isocyanate content < 0,1%
		1000H-N	10%	
		1000H-N-00	8%	
2020-GL	two-component	1000H-SG	10%	
3000	two-component	1000H-N Green	8%	for outdoor applications. isocyanate content < 0,1%
		1000H-N	17%	
		1000H-N-00	12%	(concentrate)
3002	two-component	1000H-N Green	12%	for outdoor applications. isocyanate content < 0,1%
		1000H-N-00	14%	
		1000H-GL	9%	
3004	one and two-component	1000H-N Green	8%	for outdoor applications. isocyanate content < 0,1%
3005	two-component	1000H-N Green	13%	for outdoor applications. isocyanate content < 0,1%

Series

PAD PRINTING HARDENER

531	two-component	1000H-N Green	12%	for outdoor applications. isocyanate content < 0,1%
		1000H	25%	
		1000H-N-00	14%	
566	one and two-component	1000H-N Green	5%	for outdoor applications. isocyanate content < 0,1%
		1000H	10%	
		1000H-N	10%	for outdoor applications
UV-GL T	two-component	1000H-GL	5%	
UV-T 337	one and two-component	1000H-N Green	6%	for outdoor applications. isocyanate content < 0,1%
		1000H	6%	
UV-T 337 LED	one and two-component	1000H-N Green	6%	for outdoor applications. isocyanate content < 0,1%
		1000H	6%	

STORAGE:

Please keep the cans in a dark place, at temperature of 15-25°C.

If the recommended temperature is higher than the suggested one or the cans are not completely closed, the shelf life and the qualities are drastically reduced.

CLASSIFICATION:

Before using this ink, consult the relevant safety data sheets available.

The safety data sheets provided comply with the REACH regulation (EC 1907/2006).

The hazard classification and related labelling are compliant with the CLP / GHS regulation (EC 1272/2008).

OTHER INFORMATION:

For more information on SERICOM ITALIA srl products, refer to the website www.sericom.it

NOTE:

Our technical consultancy activity, carried out orally, in writing or through tests or experiments, takes place on the basis of our best knowledge.

However, the same must be considered as information without any binding value, also as regards any third party industrial property rights.

This does not exempt the customer from performing his own checks on the products supplied by us in order to estimate the suitability or otherwise of the procedures and for the purposes intended.

The application, use and transformation of the products take place outside our control possibilities and therefore fall under the exclusive responsibility of the customer.