



# BLUESIL™ solutions for Pad Printing

Bluestar Silicones. Delivering Your Potential.

**BLUESTAR**  
SILICONES

# BLUESIL™ solutions for pad printing

- two component elastomers RTV-2
- adhesion promoters
- processing additives

## A continuous improvement of performance

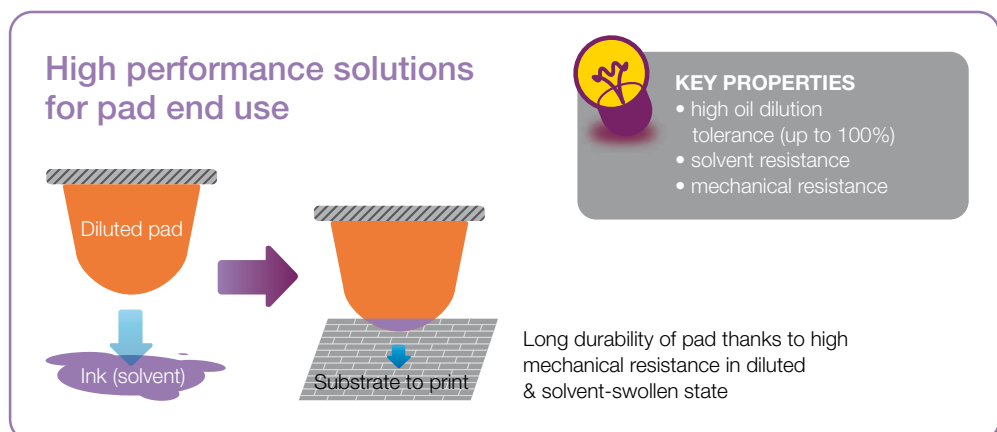
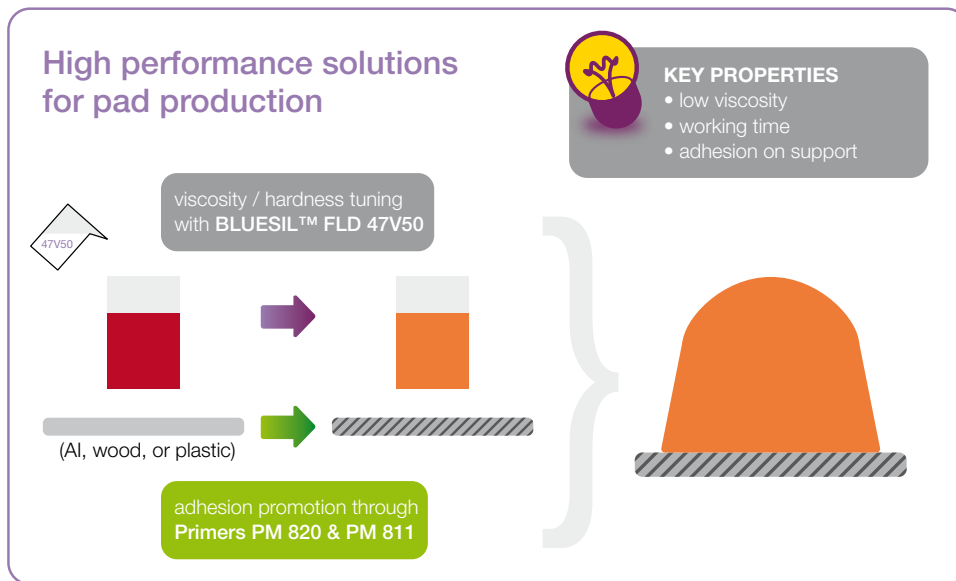
Through a dedicated team of experts, Bluestar Silicones has been able to develop the best-in-class range of products, with the ambitious target of combining the highest performance with tailor-made products.

## Not only technical service

Beyond the technical support to customers that a team of experts provide, the Bluestar Silicones Technology Group aims at the continuous improvement of product application in its whole. This has led to new developments that aim at optimizing **all steps of the value-chain** of the customer production.

## Inside a printing pad

From liquid silicone to a ready-to-use, high performance PAD: Bluestar Silicones supplies a solution to every process aspect.



## RTV-2 range for pad printing

	General purpose grades			High performance grades			
BLUESIL™ RTV	3221 (PC)	3322 (PC)	3128 (PA)	3130 (PA)	3131 (PA)	3131SC (PA)	3132 (PA)
Special Feature	Excellent print definition	General purpose	Food contact	High pad duration	High pad duration	High pad duration customizable	Anti-static
Mix Ratio	100:5	100:5	10:1	10:1	10:1	10:1	10:1
Hardness [Sh.A]	18	22	28	30	30	30	32
Working Time [min] PC catalyst	150 / 75 / 15 24H / 6H / 2H	150 / 75 / 15 24H / 6H / 2H	60	60	10	60	10
Setting Time [h]	24 / 6 / 2	24 / 6 / 2	16	5	1	5	1
Viscosity A [mPa.s] Viscosity B [mPa.s]	15000 -	30000 -	25000 5000	25000 15000	25000 15000	25000 15000	30000 1000
Colour A+B	Beige	White	Pink	Brick red	Translucent	Translucent	Blue
Food Contact Compliance			✓				

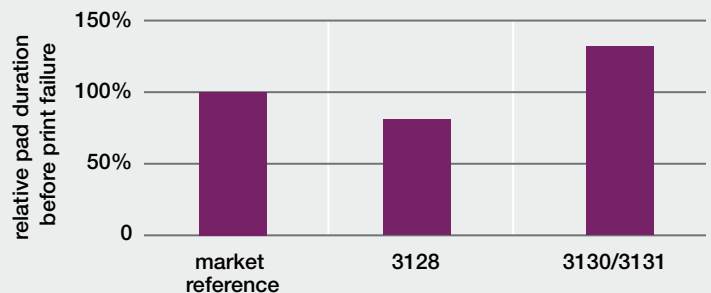
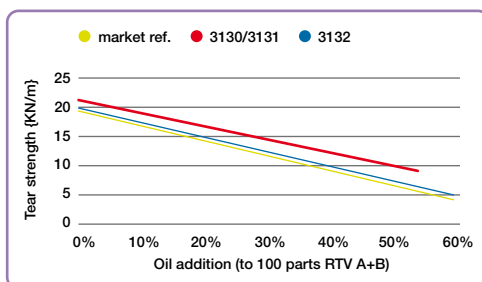
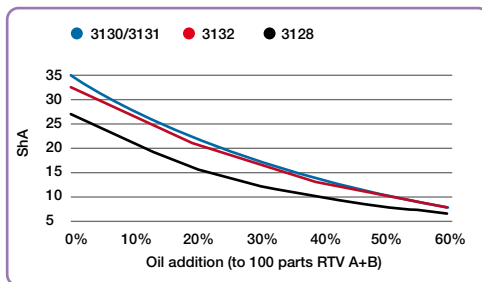
PC polycondensation curing

PA polyaddition curing

### IMPRESSING FOODSTUFF

By using BLUESIL™ RTV 3128, diluted with SILBIONE® FLD 70047V100, it is possible to obtain pads that comply with food regulations, hence being able to print or to mark foodstuff.

## Key Performances



Average pad duration (print cycles) vs market reference before pad breaks (pads made of RTV: BLUESIL™ FLD 47V50 = 100 : 60 w/w)

BLUESIL™ RTV 3130 = RTV 3131

- same recipe
- only curing kinetic and color change

BLUESIL™ RTV 3130 / RTV 3131 offer a choice between:

- fast curing = high productivity
- slow curing = not automated pad production

## Range of Additives

Adhesion promoters	BLUESIL™ Primer PM 811 A&B		BLUESIL™ Primer PM 820
	PM811/A	PM811/B	
Appearance	Clear liquid	Clear liquid	Clear liquid
Mixing Ratio A : B	10	1	/
Density [g/ml]	0.77	0.68	0.75
Potlife at 23 °C	3 days		/
Usage level	Thin layer		Thin layer
Function	Adhesion promoter of <b>polyaddition</b> curing RTV-2 on steel, aluminum, wood, artificial resin. To be used in combination with PM820.		Adhesion promoter of <b>polycondensation</b> curing RTV-2 on steel, aluminum, wood, artificial resin.

Please refer to the products' TDS for more details

Dilution silicone oils	BLUESIL™ FLD 47V50	SILBIONE® FLD 70047V100
Structure	Unreactive PDMS	Unreactive PDMS
Viscosity [mPas]	50	100
Density [g/ml]	0.96	0.97
Food contact compliance*	-	FDA CFR21 (US) ECR AP2004(5) (EU) BfR Ch.XV (D) Broch. 1227 (F)

\*please refer to mentioned documents to identify specific food limitations

For detailed commercial contacts please visit our website:

[www.bluestarsilicones.com](http://www.bluestarsilicones.com)

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