

Key Features & Benefits

- *Exterior metal protection*
- *Ease of formulation*
- *Salt spray resistant*
- *Good weatherability*

PRELIMINARY DATA SHEET

ACRYLIC LATEX POLYMER FOR HIGH GLOSS, CORROSION RESISTANT COATINGS

General Information

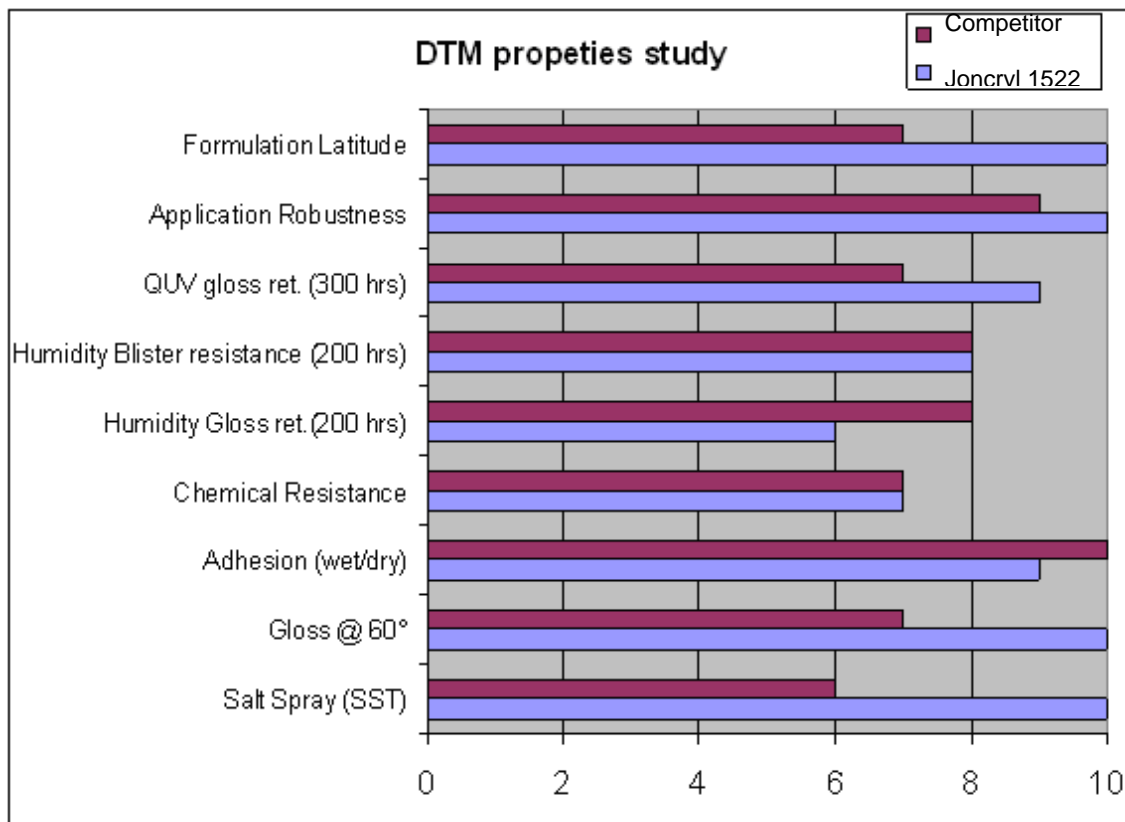
Typical Physical Characteristics

Appearance	Translucent emulsion
pH	> 8.0
Solids, % by weight	45.1
Viscosity, cps	400 - 900
Tg, °C	33.9
Minimum Film Forming Temperature, °C	26
Density as supplied (lbs/gal)	8.81
Freeze/Thaw Stable	N/A

These typical values should not be interpreted as specifications.

Joncryl® 1522 is an emulsion for direct metal applications. It has excellent corrosion resistance without the use of anti-corrosive pigments as determined by Salt Spray Resistance ASTM B 117. This emulsion offers exterior durability, is compatible with anti-corrosive pigments, and can be formulated between 250 - 100 g/l VOC.

Designed for OEM industrial direct-to-metal applications, **Joncryl 1522** exhibits an excellent balance of appearance and performance related properties as shown in the data table below.



Results of Joncryl 1522 vs. Competition:

- Comparable chemical resistance
- Excellent QUV gloss retention at 300 hrs
- Excellent corrosion resistance over cold rolled steel (CRS)
- Very robust formulation capabilities

**STARTING POINT FORMULATION
FORMULA SEH-0183D**

	<u>POUNDS</u>	<u>GALLONS</u>
Water	76.30	9.16
Disperbyk® 190	16.82	1.9
Ti-Pure® R-900	162.96	4.85
Hi-Mar® DFC-108	2.13	0.30

Grind for 30 minutes at 3400 RPM or to Hegman grind of 7. Then add:

Joncryl® 1522	584.98	66.4
Surfynol® 104H	5.07	0.64

Premix:

Water	37.98	4.56
Dowanol® EB	34.34	4.56
Dowanol® DB	18.02	2.27

THEN ADD:

Propylene Glycol	13.42	1.56
Texanol®	18.07	2.29
Hi-Mar® DFC-108	2.13	0.30
Flash® X-150	6.46	0.70
BYK® 348	4.51	0.51
Total	983.19	100.00

FORMULATION ATTRIBUTES:

Solids, % by weight	45.57
Solids, % by volume	37.36
VOC calculated: g/l	< 240
PVC, % by volume	12.98
Viscosity, Ku	56

SUPPLIER INFORMATION:

<u>Product</u>	<u>Description</u>	<u>Supplier</u>
Joncryl [®] 1522*	Acrylic emulsion	BASF Corporation
Disperbyk [®] 190*	Dispersant	BYK Chemie
Hi-Mar [®] DFC-108*	Defoamer	Hi-Mar Specialty Chemicals
Surfynol [®] 104H*	Surfactant	Air Products and Chemicals
Ti-Pure [®] R-900*	Pigment	DuPont
Propylene Glycol	Coalescent	Various
Dowanol [®] EB*	Coalescent	Dow Chemical
Dowanol [®] DB*	Coalescent	Dow Chemical
Texanol [®] *	Coalescent	Eastman Chemical
Flash [®] X-150*	Flash rust inhibitor	Halox
BYK [®] 348*	Surfactant	BYK Chemie

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U.S. and Canada

BASF Corporation
Resins
1609 Biddle Avenue
Wyandotte, Michigan 48192
Phone: 1-800-231-7868
Fax: 1-800-392-7429
polyorders@basf.com
www.basf.com/naftaresins

Mexico

BASF Mexicana, S.A. de C.V.
Av. Insurgentes Sur # 975
Col. Ciudad de los Deportes
C.P. 03710
Mexico, D.F.
Phone : (52-55) 53-25-27-87
(52-55) 53-25-26-87
Fax: (52-55) 56-11-48-97