



# Creating Additive Value



## EDAPLAN® 490, 492, 494 Polymeric Dispersants for Aqueous Systems

### FEATURES

- Universal use for organic, inorganic, carbon black pigments and fillers
- High gloss and color strength development
- Excellent pigment stabilization with no flocculation or rub-out issues
- No negative influence on water resistance or film hardness and no foam
- Reduction of grind viscosity to allow high pigment concentration
- Broad compatibility with various binders

	EDAPLAN® 490	EDAPLAN® 492	EDAPLAN® 494
<b>Copolymer structure</b>	<b>Non-ionic, high molecular weight, branched</b>		<b>Anionic, high molecular weight, branched</b>
<b>Active content</b>	40% in water	35% in water	50% in water
<b>pH</b>	7.5	8.5	8.5
<b>Viscosity, mPa.s</b>	1000	200	250
<b>VOC (EPA, Method 24)</b>	0	0	< 1%
<b>Suitable Pigments</b>	<ul style="list-style-type: none"> <li>• <b>Organic</b></li> <li>• Carbon black</li> <li>• Inorganic</li> <li>• TiO<sub>2</sub></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Carbon black</b></li> <li>• Organic</li> <li>• Silica / matting</li> <li>• TiO<sub>2</sub></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Inorganic</b></li> <li>• TiO<sub>2</sub></li> <li>• Organic</li> <li>• Carbon black</li> <li>• Transparent/ nanoscale</li> <li>• Alternate to grind resins</li> </ul>





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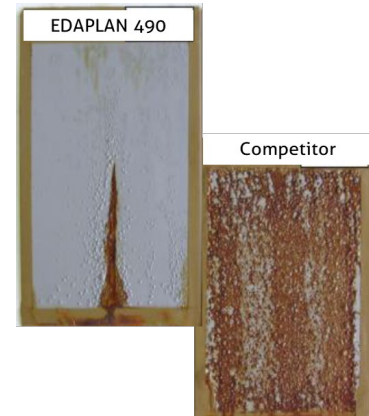
## Exterior Paint

Dispersant @ 0.44%	Ease of pigment Incorporation	Viscosity in Krebs Units (KU) 25°C			Water Sensitivity Test
		Initial	1 week	4 weeks	
Competitor	Moderate	75.4	78.2	85.5	Yellowing, tacky
Polyacrylate	Difficult	72.1	Thick	Thick	Not tested
<b>EDAPLAN® 494</b>	<b>Easy</b>	<b>81</b>	<b>83.6</b>	<b>84.2</b>	<b>Good</b>

Excellent long-term stability in all types of coatings (architectural, roof, industrial, etc.)

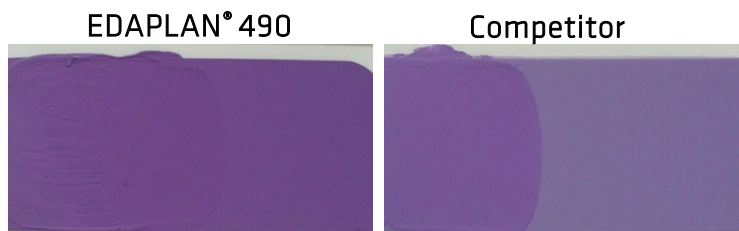
Improved water resistance

## White Anti-corrosion Primer



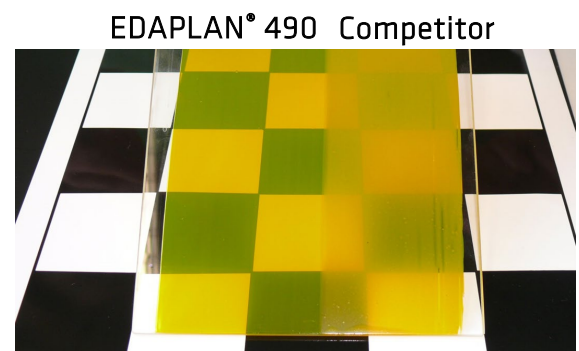
Improved corrosion resistance in salt spray test

## Organic Pigments



PV 23 (30% loading)	Competitor 1	Competitor 2	EDAPLAN 490
65% Dispersant on Pigment			
Appearance of Dispersion	Water-Like	Low Viscosity	Water-Like
Color Strength in Wall Paint	100%	77%	108%

Increase in color strength and better stability using EDAPLAN® 490



Improved transparency and homogeneity in PY-83 dispersion in a printing ink

