

Paint Polymers Technical Report

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Evaluation of Gujrat Paints Dry Shield Exterior Wall Coating.

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1 OBJECTIVE

To evaluate Gujrat Paints Dry Shield Exterior Wall coating.

2 INTRODUCTION

We have received paint sample of Dry Shield Exterior Wall coating from Gujrat Paints to test paint properties like % elongation, DPUR etc. Gujrat Paints has developed this paint based on Acronal 7079.

3 PROCEDURE

The paint sample to be checked for basic paint properties like opacity, sheen, scrub resistance along with unique performance properties like elongation, DPUR etc.

4 RESULTS & DISCUSSION



All the properties were evaluated against the standard guideline formulation of Acronal 7079 I and market best DPUR top coat. The results are as below.

Paint Properties	Luxury exterior Paint Based on Acronal 7079	Gujrat Paints - Dry Shield Exterior Wall Coating	Market Best DPUR Top Coat
Storner Viscosity	108 KU	141 KU	NA
Opacity Visual	4	4	4
Opacity by Spectro	95.9	95.81	95.54
Whiteness Index CIE	79.4	80.9	75
Gloss @ 20° / Sheen 60° / 85°	2.9 /18.1/41.5	2.6/15/53	1.7/8.5/17.1
DPUR ratings visual - as such	3	2.5	4.5
DPUR ratings visual - after 7 days exterior exposure	3.75	3.5	4
Elongation % (DFT)	241 (210 μ)	288 (190 μ)	43.8 (220 μ)
Tensile Strength in mPa	4.9	3.5	3.9
Wet Scrub Resistance (ASTM)	> 4000 strokes	2450 - 2850 strokes	1300 - 1600 strokes

Visual ratings 5 is best while 0 is worst


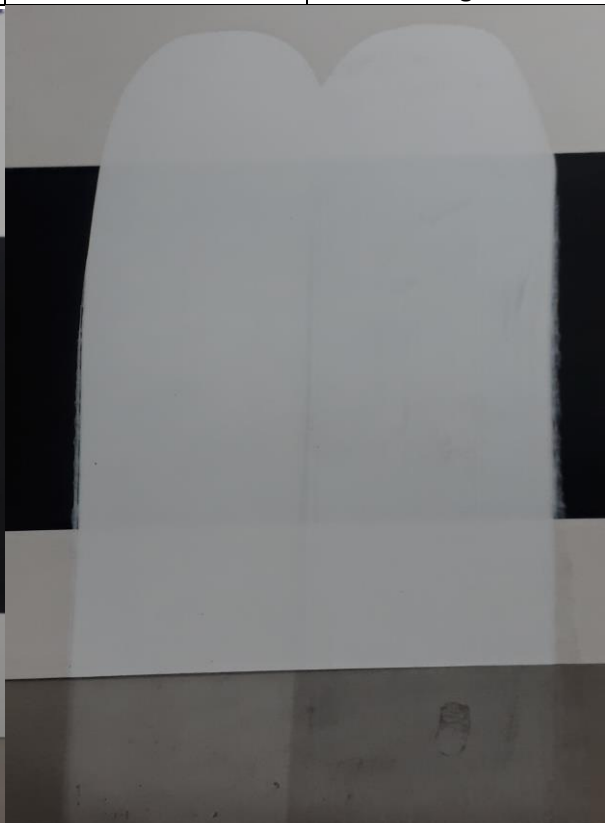
DPUR Panel before Exposure

DPUR Panel after 7 Days Exposure

Market Best DPUR Top Coat	Dry Shield Exterior Wall Coating	Market Best DPUR Top Coat	Dry Shield Exterior Wall Coating
			

DPUR Panel before Exposure

DPUR Panel after 7 Days Exposure

Acronal 7079 Based Paint	Dry Shield Exterior Wall Coating	Acronal 7079 Based Paint	Dry Shield Exterior Wall Coating
			

Wet Scrub Resistance panel



5 CONCLUSION

- 1) Compared to Market best DPUR Top Coat, Gujrat Paints Dry Shield shows better Elongation, Scrub Resistance, Whiteness and Sheen.
- 2) Compared to Market best DPUR Top Coat, Gujrat Paints Dry Shield shows lower DPUR.
- 3) Opacity and tensile strength of Gujrat Paints Dry Shield are comparable with Market Best DPUR Top Coat.