

# PURNIMA GROUP

ENRICHING PERFECTION THROUGH INNOVATION

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#### ATHEROL - NATURAL OIL BASED HIGH PERFORMANCE DRIVEN POLYOLS

# HIGH PERFORMANCE POLYOLS FOR 2K PU BASED SYSTEMS BASED ON NATURAL OIL. ATHEROL BY ATHER POLYURETHANE

Our atherol series is a range of green polyols which has been designed for the use in coating, adhesives, sealants and elastomer (CASE). Atherol series will help you comply with high environmental standards whilst providing the best of all performance.

#### **HOW THE GREENER PROFILE YOU ASK?**

Atherol series is based on natural renewable sources. They also have a very distinct hydrophobic character. For this reason, oleochemical polyols create significantly less CO2 as a result of the side reaction of the curing agents.

Atherol polyols are polyfunctional alcohols based on renewable raw materials like, castor oil and soybean oil The practical advantages of these products include good adhesion, excellent workability and good weathering properties. They can also be used on a wide variety of different substrates. In high humidity and high temperature conditions, these special polyols are able to create networks without bubbles or foam formation. Besides good hydrophobicity, polyols based on oleochemicals exhibit excellent hydrolysis resistance, chemical resistance and UV resistance, as well as low viscosity. Low viscosity enables wide acceptance in spraying applications. Atherol series has 100% solid content along with high gloss and pigment wetting properties, these perks enable us to serve in applications such as concrete flooring, wind blades, pipeline coatings, protective coatings and adhesives.

# **BIO-POLYOLS**

GRADE	ТҮРЕ	<b>OH</b> CONTENT	OH EQUIVALENT WT	VISCOSITY mPas	APPLICATIONS / CHARACTERISTICS
ATHEROL 100	Polyester Diol	70	801	6000	Co-polyol for performance driven PU coatings (e.g. sports floor)  Elastomers and sealants  Good hydrolysis stability  Soft elastic performance
ATHEROL 114	Branched Polyester polyether	260	240	2500	<ul> <li>Low viscosity universal polyol</li> <li>Binder for pigment pastes</li> <li>Crack-bridging floorings</li> <li>Good chemical resistance</li> <li>Hydrophobic</li> <li>Good elastic memory effect</li> </ul>
ATHEROL 115	Branched Polyester polyether	165	330	4000	<ul><li>Universal polyol.</li><li>Excellent impact resistance</li><li>Shore D hardness (D~70)</li></ul>
ATHEROL 116	Branched Polyester polyether	260	240	2500	Rapid curing applications such as Polyurea coating.
atherol 500	Branched Polyester polyether	280	225	700	<ul> <li>low viscosity universal polyol extremely hydrophobic.</li> <li>Good self-leveling properties excellent flexibility at temperatures below 0 °C</li> <li>Good bonding properties</li> </ul>
ATHEROL 750 M	Emulsion polyol	-	-	300	Cementitious polyurethane floor coating
ATHEROL 9950	Branched Polyester polyether	270	207	1500	Flexibility is achieved when blended with other atherols
ATHEROL 1000	Polyester Polyether	155.16	320	1000	Medium viscosity flexible polyol     Increases pot life
ATHEROL 1200	Polyester Polyether	160	350	900	Medium viscosity flexible polyol     More flexible than Atherol 1000 grade     Increases pot life

Our State-of-the-Art Laboratory and highly inspiring R&D team enables us to deliver tailor made Bio-Polyols with variable hydroxyl content, viscosity and Molecular weight according to your specifications.



# **1K PU SYSTEMS**

Single component moisture cure systems are isocyanate-based Polyurethanes which cures in presence of humidity / moisture in atmosphere. Purnima group offers systems for applications which finds their use in various industries, our ambitious and resilient R&D team has solution to every obstacle which allows us to tailor make any system according to your needs and specification.

#### • ADHESIVE AND BINDERS •

GRADE*	DESCRIPTION
ATHESIVE 1015	Universal binder for adhesive for all substrates.
ATHESIVE 1016	Binder for rubber granules, foam and scrap foam

#### ■ WATER PROOFING SYSTEMS

GRADE*	DESCRIPTION
атнојет 1К 909	Useful in immediate sealing of heavy water leakage by expanding the foam 4000% and provides hydrophobic foam which in turn gives better water proofing
атнојет 1K 606	Useful for normal water leakage. Provides hydrophobic foam which expands 2700%.
атнојет 2K 909	<ul> <li>Provides elastic sealing with hardness of shore A 50 – 60. Used for sealing after foam and can also be used for crack filling</li> </ul>
athoproff 1K	Highly elastic waterproofing system.

# • AROMATIC PREPOLYMERS •

GRADE <sup>*</sup>	DESCRIPTION
ATHOMER A21	As a binder for the formulation of moisture-curing, one-component coatings and adhesives.
ATHOMER A15	In the formulation of flexible coatings and sealing compounds
ATHOMER A22	• In the formulation of highly flexible one- and two-component polyurethane coatings and adhesives. It can also be used as a binder for flexible aggregates, e.g. rubber granules.
athomer A27 L	For one and two-component polyurethane and polyurea coatings, adhesives and sealants.

<sup>\*</sup>Can be tailored made as per requirement.



# **BISPHENOL-A BASED LIQUID EPOXY RESINS**

Purnima group offers modified and unmodified bisphenol-A based epoxy resins in various viscosities. These resins are widely used in Adhesives, coatings, construction, electrical and composites

Diglycidyl ether of Bisphenol-A (DGEBA)

GRADE	VISCOSITY <sup>1</sup> mPas	EEW <sup>2</sup>	COLOUR <sup>3</sup>	RECOMMENDATIONS
pg r 811	11000 – 14000	185-194	0.5 MAX	A standard viscosity, unmodified liquid epoxy resin for multiple applications.
pgr 87	450 – 800*	224 – 280	MAX 2	A semi solid resin for adhesives and prepegs
♠ PGR 8811	10000 – 13000	186 – 200	0.5 MAX	Standard water reducible liquid epoxy resin. Can be diluted up to 40%. Give good adhesion on damp surfaces
pg r 847	450 – 650	177 – 187	1 MAX	A liquid epoxy resin modified with glycidyl ether of phenol recom- mended for high gloss, heavy duty flooring, solvent free coatings, grouts, mortars and crack filling applications
pg r 8131	500 – 1000	196 – 204	1 MAX	A Low viscosity epoxy resin which enables for higher filler loading and mainly used for top coat floorings
pg R 8136	1800 – 2400	192 – 204	1MAX	Epoxy resin mainly used with PG H-6236. Recommended for small artworks and coatings.
PG R 8193	600 – 1200	181 – 193	1 MAX	Epoxy resin mainly used with PG H-6293. Recommended for artworks and table tops upto 10 mm thickness
pg r 8084	400 – 800	208 – 218	1 MAX	Epoxy resin mainly used with PG H-6085. Recommended for artworks or coatings which need faster production.

\*70% Solution In Butyl Carbitol

<sup>1</sup>Brookfield viscosity- ASTM D2196

Water reducible



<sup>&</sup>lt;sup>2</sup>all values in g\eq - ASTM D1652

<sup>&</sup>lt;sup>3</sup>all values in gardener scale- ASTM D1544

# **REACTIVE DILUENTS**

Reactive diluents are used to reduce viscosity of epoxy resins whilst maintaining epoxy value. Reactive diluents are epoxy Group containing functional products that can react with the curing agents to become part of a cross linked system. Each different reactive diluent optimizes the performance properties such as adhesion, flexibility, filler loading, impact strength, solvent resistance and electrical resistance in its own way of mechanism.

PG-D series reactive diluents are mainly classified in three groups- aliphatic, aromatic and cycloaliphatic. They can be further classified as mono functional, di functional and tri functional.

#### • MONO FUNCTIONAL ALIPHATIC •

GRADE	VISCOSITY <sup>1</sup> mPas	EEW <sup>2</sup>	COLOUR <sup>3</sup>	FEATURES	STRUCTURE
4002	5-12	270 – 312	100 MAX	<ul> <li>Based on C12 -C14 alcohol.</li> <li>Excellent wetting &amp; flexibility</li> <li>Recommended for epoxy flooring &amp; coating applications</li> </ul>	C <sub>12</sub> -C <sub>14</sub> -O
4012	MAX 2	135-163	100 MAX	<ul> <li>Based on n-butanol</li> <li>Offers highest viscosity cutting power due to extremely low viscosity</li> <li>High Purity grade</li> </ul>	0
4012 HP	MAX 2	133 - 145	100 MAX	<ul> <li>Based on n-butanol</li> <li>Offers highest viscosity cutting power due to extremely low viscosity</li> <li>High Purity grade</li> </ul>	
4013	2-10	215 – 230	100 MAX	Based on 2-Ethyl hexanol     Increases Pot life	

# • DI FUNCTIONAL ALIPHATIC •

GRADE	VISCOSITY <sup>1</sup> mPas	EEW <sup>2</sup>	COLOUR <sup>3</sup>	FEATURES	STRUCTURE
4003	12 – 22	128 – 145	100 MAX	<ul><li>Based on 1,4 butanediol</li><li>Used in construction and composite applications.</li></ul>	OCH <sub>2</sub> / <sub>4</sub>
4004	15 – 25	145 – 161	100 MAX	<ul><li>Based on 1,6 hexanediol</li><li>Used in construction, coating and composite applications</li></ul>	(CH <sub>2</sub> ) <sub>6</sub>
4005	47 – 70	314 - 363	100 MAX	Based on Polypropylene glycol     Imparts flexibility	
4006	18 - 25	141 – 160	100 MAX	Based on Neopentyl glycol     Good property retention	& o X o X o
4014	20 - 50	161 – 192	100 MAX	<ul><li>Based on Dipropylene glycol</li><li>Improves impact strength and elongation</li></ul>	9 (CH,), (CH,), (CH,),
4015	60 - 90	165 – 185	100 MAX	<ul> <li>Based on 1, 4 cyclohexane dimethanol</li> <li>Provides excellent UV resistance.</li> </ul>	20008
4016	60 - 110	270 - 300	200 MAX	Based on polyethylene glycol     Soluble in water	~ (0~),0~ °
4017	300 - 800	350 – 450	8G MAX*	<ul><li>Ester based on dimer acid</li><li>Improves toughness and flexibility</li></ul>	

# **REACTIVE DILUENTS**

# • TRI FUNCTIONAL ALIPHATIC •

GRADE	VISCOSITY <sup>1</sup> mPas	EEW <sup>2</sup>	COLOUR <sup>3</sup> APHA	FEATURES	STRUCTURE
PG D 4007	100 - 250	130 - 150	100 MAX	<ul> <li>Based on Trimethylol propane</li> <li>Used in construction and composite applications.</li> </ul>	
PG D 4011	250 - 500	500 - 649	8 G MAX*	<ul> <li>Based on Castor oil</li> <li>Used for concrete patching, floor coating and thermal shock resistant potting</li> </ul>	R

# • MONO FUNCTIONAL AROMATIC •

GRADE	VISCOSITY <sup>1</sup> mPas	EEW <sup>2</sup>	COLOUR <sup>3</sup> APHA	FEATURES	STRUCTURE
PG D 4001	6-12	155 - 170	2.0 G MAX*	Based on Phenol     Used in electrical formulations	
PG D 4008	5-10	175 - 190	100 MAX	<ul> <li>Based on O-cresol</li> <li>Offers high gloss and mechanical strength</li> <li>Recommended in flooring and electrical formulations.</li> </ul>	CH <sub>3</sub>
PG D 4009	20 - 35	208 - 244	100 MAX	Based on P-tertiary butyl phenyl     Offers good chemical resistance	
PG D 4010	40 - 60	400 - 555	10 G MAX*	<ul> <li>Based on Cardanol</li> <li>Used for coatings, adhesives, construction and electrical applications</li> </ul>	C <sub>15</sub> H <sub>29</sub>

<sup>1</sup>Brookfield viscosity- ASTM D2196

Water Soluble

<sup>&</sup>lt;sup>2</sup>all values in g\eq - ASTM D1652

<sup>&</sup>lt;sup>3</sup>all values in APHA scale- ASTM D1209

<sup>\*</sup>all values in gardener scale- ASTM D1544

# POLYAMIDE CURING AGENT

Polyamide curing agent is a reaction product of dimer acid and polyamine. These curing agents can be blended with epoxy resins in a variety of mixing ratios. Good chemical resistance, film forming character, high gloss and excellent adhesion make them suitable for coating and adhesive applications. Purnima group offer various curing agents under this category with varying viscosities and reactivity.

GRADE	COLOUR <sup>1</sup>	VISCOSITY <sup>2</sup>	AMINE	POT LIFE <sup>4</sup>	AHEW	MIXING	RECOMMENDATIONS
	OCLOOK	mPas	VALUE <sup>3</sup>	Mins	g/eq	RATIO <sup>5</sup>	
<sub>рд н</sub> 6714	8 MAX	300 - 900	350 - 400	200-220	95	50	A low viscosity polyamide curing agent recommended for grouts, crack injection, primers, protective coatings, tile gap filling, mortars and adhesives.
<sub>РБН</sub> 6714 IN	9 MAX	300 - 900	350 - 400	60-100	95	50	A low viscosity polyamide curing agent recommended for grouts, crack injection, primers, protective coatings, tile gap filling, mortars and adhesives.
<sub>РGН</sub> 6714 OG	8 MAX	500 -1000	425 – 450	90 – 120	95	50	A low viscosity polyamide curing agent recommended for grouts, crack injection, primers, protective coatings, tile gap filling, mortars and adhesives.
<sub>РGН</sub> 6713	9 MAX	10000 – 16000	350 - 400	80 – 120	95	50	A moderate viscosity polyamide curing agent recommended for high solids coatings, primers, grouts, mortars, adhesives, marine and industrial paints.
<sub>рд н</sub> 6713 IN	9 MAX	10000 – 18000	350 - 400	50-90	95	50	A moderate viscosity polyamide curing agent recommended for high solids coatings, primers, grouts, mortars, adhesives, marine and industrial paints
<sub>РБН</sub> 6712	9 MAX	35000 - 55000	280-320	80 – 110	105 – 124	55 - 65	A high viscosity polyamide curing agent recommended for protective coatings, adhesives, flooring, marine coatings and industrial paints.
<sub>РБН</sub> 6712 US	9 MAX	35000 - 55000	330-360	100 – 130	105 – 124	50	A high viscosity polyamide curing agent recommended for protective coatings, adhesives, flooring, marine coatings and industrial paints.
<sub>РБН</sub> 6711	9 MAX	45000 - 65000 @40°C	210 - 230	-	190 - 238	100 - 125	A high viscosity polyamide curing agent recommended foradhesives, sealants and anti-corrosive coatings
PG H 6711 X 70	9 MAX	800 – 1600	140 – 180		-	-	70% solids
<sub>РБН</sub> 6711 IN	9 MAX	45000 - 65000 @40°C	210 – 230	-	190 – 238	100 - 125	70% solids
6711 IN X 70	9 MAX	800 – 1600	140 -180	-	-	-	70% solids
<sub>рд н</sub> 6433	9 MAX	300-900	300-330	90 -110	95	50	Polyamide curing agent used for grouting applications

# ◆ AROMATIC AMINE CURING AGENTS

Curing agents such as aromatic amine are available in solid and liquid forms and are modified to cure epoxy resins at ambient conditions as well. Higher thermal stability and chemical resistance along with excellent mechanical properties are specific advantages of these curing agents. Purnima group offers a wide range of aromatic amine curing agents for various applications.

$$H_2N$$
  $NH_2$ 

# 4,4'-Diaminodiphenyl methane

GRADE	COLOUR	VISCOSITY <sup>1</sup> mPas	AMINE VALUE <sup>2</sup>	POT LIFE <sup>3</sup> Mins	AHEW g/eq	MIXING RATIO <sup>4</sup>	RECOMMENDATIONS
<sub>РБН</sub>	WHITE TO TAN PASTILLES	-	-	-	49.5	26	A pure aromatic amine curing agent- 4,4'-Diaminodiphenyl methane recommended to cure epoxy resins at elevated temperatures
<sub>РБН</sub>	BROWN LIQUID	3500 - 5500	260 - 290	8-10 HRS	114.0	60	A low viscosity aromatic amine curing agent to be used along with curing agent PG H-642 for high chemical resistant industrial flooring, coatings and chemical resistant tank linings
<sub>рд н</sub> 642	DARK BROWN LIQUID	15500 – 22000	245 – 270	20 – 40	114.0	60	An aromatic amine curing agent with high reactivity to be used along with curing agent PG H-641
рд н 649	BROWN LIQUID	700 – 900	260-290	110 - 150	114.0	60	A low viscosity aromatic amine curing agent with moderate reactivity recommended to achieve high chemical resistance in flooring, coatings and tank linings

<sup>&</sup>lt;sup>1</sup>all values in gardener scale- ASTM D1544



<sup>&</sup>lt;sup>2</sup>Brookfield viscosity- ASTM D2196

<sup>&</sup>lt;sup>3</sup>all values in mg KOH/gm- ASTM D2074

<sup>4100</sup>gms mass mixed in a cup with PG R-811 (EEW:190) - ASTM D-2471

<sup>&</sup>lt;sup>5</sup>with liquid epoxy resin PG R-811(EEW:190)

#### ● ALIPHATIC CURING AGENTS ●

Aliphatic amines are low in viscosity and are preferred curing agents at ambient conditions for general applications. They offer excellent combinations of properties and are used in adhesives, coatings, composites and construction applications. PURNIMA GROUP offers several grades of aliphatic amine curing agents with varying viscosities, reactivity and performance properties after optimum curing

GRADE	COLOUR <sup>1</sup>	VISCOSITY <sup>2</sup> mPas	AMINE VALUE <sup>3</sup>	POT LIFE <sup>4</sup> Mins	AHEW g/eq	MIXING RATIO <sup>5</sup>	RECOMMENDATIONS
<sub>РБН</sub> 6666	MAX 1	5 - 20	-	25 - 35	-	-	It is a modified polyamine recommended for adhesives, castings, coatings, construction and composite applications
<sub>рд н</sub> 6006	MAX 3	-	-	30-40	19.0	10 - 12	An unmodified aliphatic polyamine recommended for adhesives, castings, coatings, construction and composite applications
<sub>рд н</sub> 6007	MAX 1	5 - 10	1600 - 1650	15 - 30	21.0	8	An unmodified aliphatic polyamine recommended for adhesives, castings, coatings and composite applications
<sub>рд н</sub> 6958	MAX 4	150 - 300	900-1000	20 - 30	34.0	18	A modified polyamine curing agent with low vapour pressure and high reactivity recommended for adhesives, composites, castings and coating applications
<sub>рдн</sub> 652	u.	3000 - 3500	780 - 830	-	42.0	20-22	A modified polyamine curing agent with low vapour pressure and high reactivity recommended for adhesives, composites, castings and coating applications
<sub>рд н</sub> 6698	2 MAX	9000 - 15000	340 – 370	70 – 110	95	50	A polyamine with properties similar to Polyamide 6713

<sup>&</sup>lt;sup>1</sup>all Values In Gardener Scale- ASTM D1544



<sup>&</sup>lt;sup>2</sup>brookfield Viscosity- ASTM D2196

<sup>&</sup>lt;sup>3</sup>all Values In Mg Koh/gm- ASTM D2074

<sup>4100</sup>gms Mass Mixed In A Cup With PG R-811 (EEW:190) - ASTM D-2471

<sup>&</sup>lt;sup>5</sup>with Liquid Epoxy Resin PG R-811(EEW:190)

# • CYCLOALIPHATIC CURING AGENTS •

Cycloaliphatic amine curing agents offer low colour and viscosity. They are widely used in adhesives, coatings, composites and self-levelling flooring

GRADE	COLOUR <sup>1</sup>	VISCOSITY <sup>2</sup>	AMINE VALUE <sup>3</sup>	POT LIFE <sup>4</sup> Mins	AHEW g/eq	MIXING RATIO <sup>5</sup>	RECOMMENDATIONS
<sub>рдн</sub> 6231	MAX 1	300-600	270 - 320	30-45	95	50	low viscosity modified cyclo aliphatic polyamine mainly used for top coats
<sub>РGН</sub> 6232	MAX 1	270 - 380	280 - 320	28 - 45	<u>a</u>	60	Low viscosity, Blush-free and chemical resistant cycloaliphatic amine used for Top coats in floor coating
<sub>РGН</sub> 6233	MAX 1	270 – 380	280-320	35-55	95	50	low viscosity modified cyclo aliphatic polyamine mainly used for top coats and castings.
<sub>РGН</sub> 6234	MAX 7	350 – 700	240-280	30-50	114	60	Blush - free and chemical resistant
<sub>РGН</sub> 6091	MAX 1	130 – 180	310 - 330	30 - 40	-	50	low viscosity modified cyclo aliphatic polyamine mainly used for top coats
<sub>РБН</sub> 6236	MAX 1	50-100	340-360	30-45	78	40 - 60	low viscosity modified cyclo aliphatic polyamine mixed with PG R-8136 epoxy resin mainly used for coatings and small art works.
<sub>РGН</sub> 6293	MAX 1	15 – 50		40 - 60	-	33	low viscosity modified cycloal- iphatic polyamine mixed with PG R-8193 epoxy resin mainly used for coatings and table tops with medium thickness upto 10mm
<sub>РGН</sub> 6270	MAX 1	02 - 20	450 – 490	150 - 180	-	30	low viscosity modified cyclo aliphatic polyamine mixed with PGR-8170 epoxy resin mainly used forcoatings and table tops with higher thickness upto 20mm
<sub>РGН</sub> 6075	MAX 1	1500 – 2500	270 – 310	15-30	95	50	Used for jewellery coatings and adhesives
<sub>РGН</sub> 6085	MAX 2	1000 – 1500	380 – 410	7 - 15	-	33	low viscosity modified cyclo aliphatic polyamine mixed with PG R-9055 epoxy resin mainly used for coatings which need fast production

<sup>&</sup>lt;sup>1</sup>all values in gardener scale- ASTM D1544

<sup>&</sup>lt;sup>2</sup>Brookfield viscosity- ASTM D2196

<sup>&</sup>lt;sup>3</sup>all values in mg KOH/gm- ASTM D2074

<sup>&</sup>lt;sup>4</sup>100gms mass mixed in a cup with PG R-811 (EEW:190) - ASTM D-2471

<sup>&</sup>lt;sup>5</sup>with liquid epoxy resin PG R-811(EEW:190)

#### ● PHENALKAMINE CURING AGENTS

Phenalkamine curing agents are mannich based reaction product of cardanol and polyamine. These curing agents can be blended with epoxy resins in a variety of mixing ratios. Good chemical resistance, fast film forming character, good moisture tolerance, high gloss and excellent adhesion make them suitable for coating and adhesive applications. unlike other curing agents, Phenalkamines are notoriously known for their performance on damp surfaces. Purnima group offer various curing agents under this category with varying viscosities and reactivity.

GRADE	COLOUR <sup>1</sup>	VISCOSITY <sup>2</sup> mPas	AMINE VALUE <sup>3</sup>	POT LIFE <sup>4</sup> Mins	AHEW g/eq	MIXING RATIO <sup>5</sup>	RECOMMENDATIONS
<sub>рд н</sub> 6558	16 MAX	500 - 1500	320 - 360	35 - 50	95	50	A low viscosity curing agent recommended for high solids coatings, primers, grouts, mortars, adhesives, marine and industrial paints.
PG H 6558 LITE	10 MAX	500 - 1500	320-360	35 - 50	95	50	A low viscosity curing agent recommended for high solids coatings, primers, grouts, mortars, adhesives, marine and industrial paints.
<sub>рд н</sub> 6558 F	17 MAX	500 – 1500	320 - 370	17 – 30	95	50	A low viscosity curing agent recommended for high solids coatings, primers, grouts, mortars, adhesives, marine and industrial paints.
<sub>РG Н</sub> 6197	17 MAX	300-1000	190 – 240	15 – 22	179	100	A low viscosity curing agent recommended for flooring, coating and adhesives where fast cure is required
<sub>рвн</sub> 6541	16 MAX	20000 - 50000	290-330	80-90	130	68	A high viscosity curing agent recommended for high solids coatings, primers, grouts, mortars, adhesives, marine and industrial paints.
PG H 6541 LITE	10 MAX	20000 - 50000	290-330	70 - 100	130	68	A high viscosity curing agent recommended for high solids coatings, primers, grouts, mortars, adhesives, marine and industrial paints.
<sub>рд н</sub> 6541 LV	16 MAX	2000 – 4000	280-320	80-100	95	50	A low viscosity curing agent recommended for protective coatings, adhesives, flooring, marine coatings and industrial paints.
<sub>рвн</sub> 6198	14 MAX	100 -210	290 - 340	15 – 25	179	94	Low viscosity curing agent for protection of concrete and metal substrates. (A 93% solids product)

<sup>&</sup>lt;sup>1</sup>all values in gardener scale- ASTM D1544

<sup>&</sup>lt;sup>2</sup>Brookfield viscosity- ASTM D2196

<sup>&</sup>lt;sup>3</sup>all values in mg KOH/gm- ASTM D2074

<sup>&</sup>lt;sup>4</sup>100gms mass mixed in a cup with PG R-811 (EEW:190) - ASTM D-2471

<sup>&</sup>lt;sup>5</sup>with liquid epoxy resin PG R-811(EEW:190)

<sub>рдн</sub> 6555	16 MAX	800 – 1800	400 -420	30 – 45	4	40	Solvent free low viscosity curing agent
<sub>рдн</sub> 6943	16 MAX	1000 – 2500	470 – 510	40-60	82	40	A low viscosity curing agent recommended for adhesives, sealants and anti - corrosive coatings
<sub>рд н</sub> 6942	17 MAX	1000 – 4000	490 – 550	70 – 100	125	45-55	Low viscosity solvent free curing agent

# • WATER BORNE CURING AGENTS •

Water borne curing agents are found to be promising when regular systems fail to give good performance in specific substrate conditions such as wet or damp substrates.

GRADE	COLOUR <sup>1</sup>	VISCOSITY <sup>2</sup> mPas	AMINE VALUE <sup>3</sup>	POT LIFE <sup>4</sup> Mins	SOILDS %	MIXING RATIO <sup>5</sup>	RECOMMENDATIONS
Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р	MAX 9	3500 - 6500	250 - 300	25 - 45	62±3	100	Polyamine based waterborne coatings and primers
о рдн 6802	MAX 9	30000 - 40000	190 - 240	35-55	62±3	100	Polyamine based waterborne coatings, primers and adhesives
6803	MAX 9	12000-18000	190 – 240	40 – 50	60 ± 2	100	Polyamine based waterborne coatings and primers
рдн 9360	MAX 9	35000 - 60000	135 – 160	70 - 90	51±1	150	Polyamide based waterborne coatings and primers
рдн 9361	9 G MAX	30000 - 50000	200 - 220	60 - 80	48 - 50	100 - 150	Polyamide based waterborne coatings and primers

<sup>1</sup>all Values In Gardener Scale- ASTM D1544



<sup>&</sup>lt;sup>2</sup>brookfield Viscosity- ASTM D2196

<sup>&</sup>lt;sup>3</sup>all Values In Mg Koh/gm- ASTM D2074

<sup>&</sup>lt;sup>4</sup>100gms Mass Mixed In A Cup With PG R-811 (EEW:190)- ASTM D-2471

<sup>&</sup>lt;sup>5</sup>with Liquid Water Borne Epoxy Resin PG R-8811(EEW:190)

Water Borne

● NOTES ●

#### **OUR GLOBAL PRESENCE**





#### **Head Office**

1206, 1207, 1208 Satyamev Eminence, Science City Road, Sola, Ahmedabad, Gujarat. India 380060





www.purnimagroup.com 🖾 account@purnimagroup.com







+917929912339