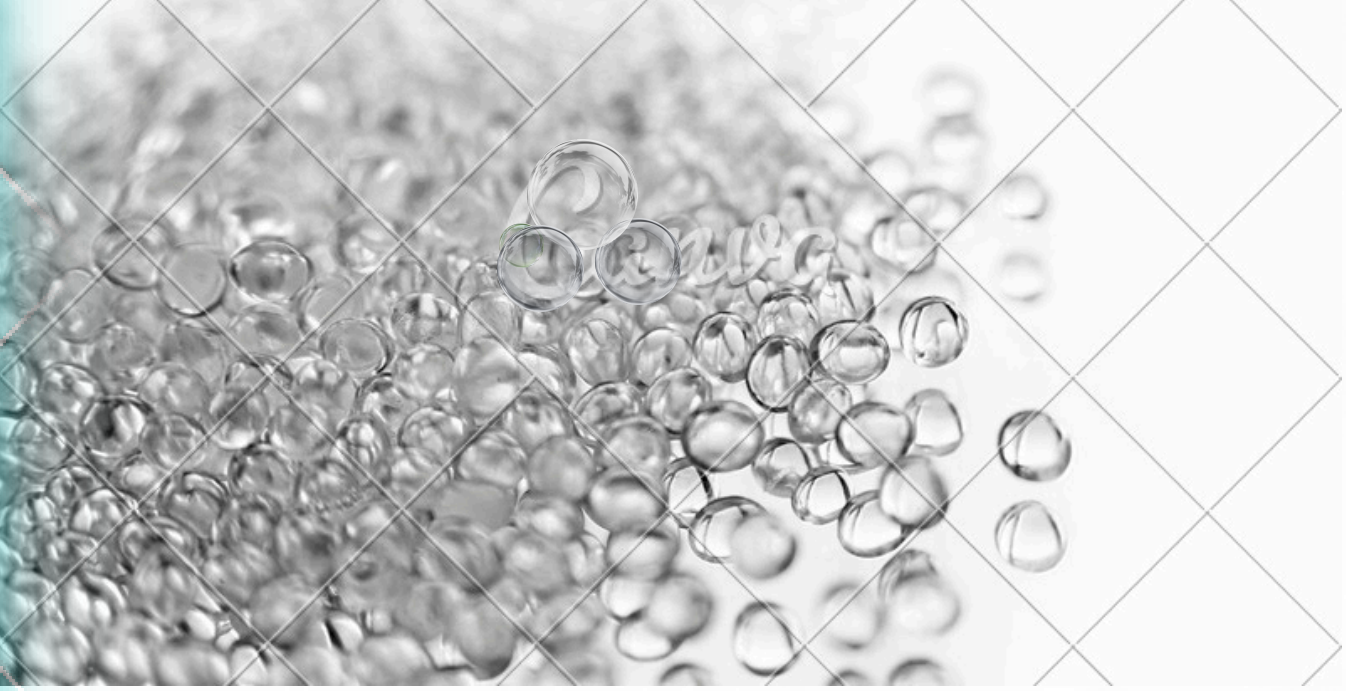
GreenPoly SOLUTIONS

GREENBUILD™ AVAILABLE SOLUTIONS & PRODUCT DETAILS



Formulation Guidelines

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Greenbuild™ -Solutions List

Greenbuild™ Single Polymer Solutions

- Single Polymer For Block Jointing Mortar (BJM)
- Single Polymer For Curing Free Dry Plaster (DP)
- Single Polymer For Cementetious Coarse Putty (CP)
- Single polymer for Cementetious Wall Putty (WP)
- Single Polymer For Cementetious Tile Adhesive T1-T4 (TA)

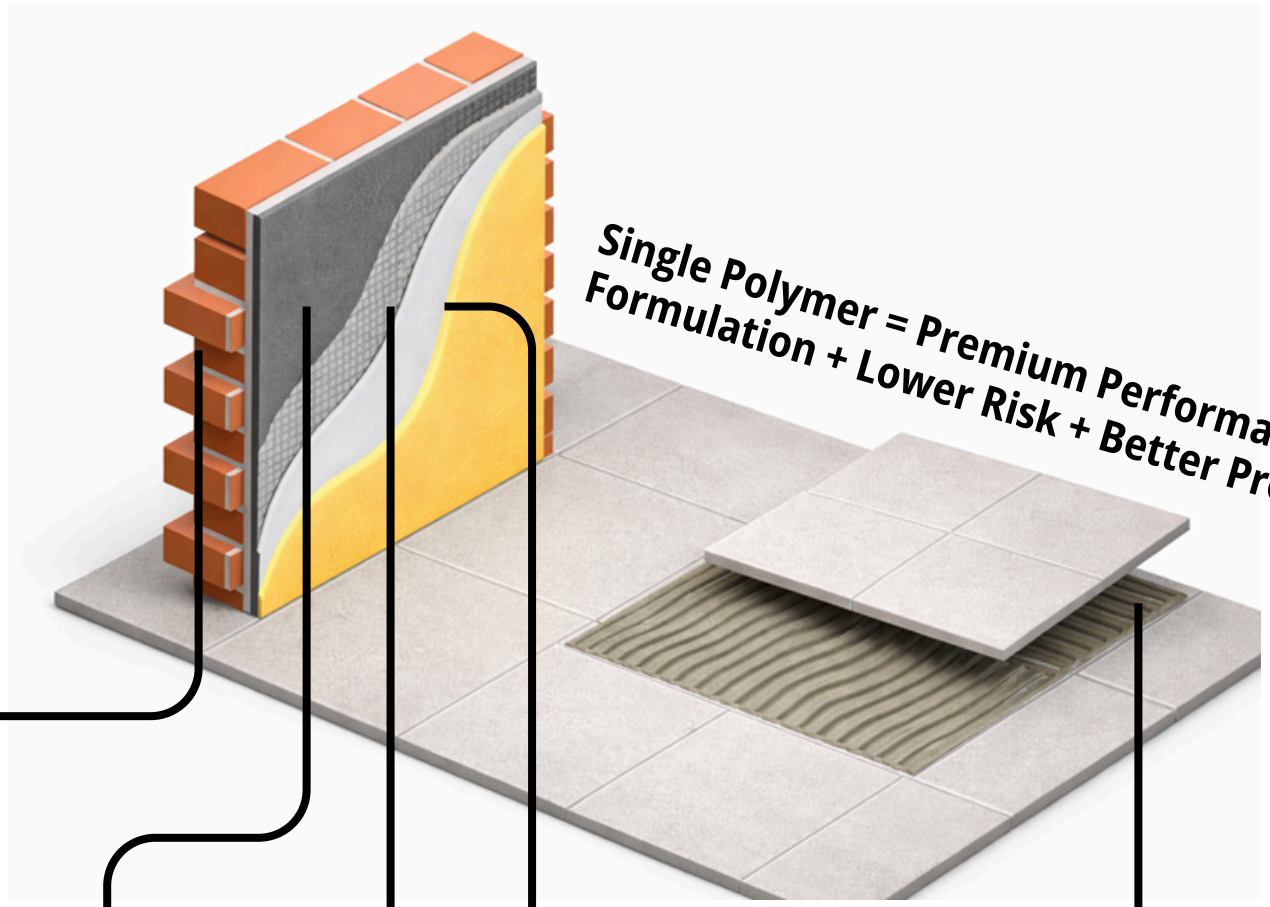
Greenbuild™ RDP Solutions

- Normal RDP for All Construction Products (RDP-N)
- Hydrophobic RDP for Waterproof Putty (RDP-W)
- Advance Hydrophobic RDP for Waterproof Putty (RDP-H)
- Advance RDP for Tile Adhesive -T1 to T4 (RDP-TA)

Greenbuild™ MHEC Solutions

- Methyl Hydroxy Ethyl Cellulose -(MHEC)
- Hydroxyethyl Cellulose -(HEC)

Greenbuild™ Single Polymer Solutions for Manufacturing of Floor & Wall Products



Single Polymer = Premium Performance + Easy Formulation + Lower Risk + Better Profit.

For BJM

For Dry Plaster

For Course Putty

For Normal Wall Putty

For Tile Adhesive

TensiloGel™ 5100B
(Single Polymer for BJM)

+Description

Tensilogel™ 5100B is a hybrid-technology–based single polymer specially developed for Block Jointing Mortar (BJM) applications. It is a precisely engineered blend of high-performance polymers, including RDP, MHEC, and other active functional additives.

This unique formulation provides all critical technical properties required for high-performance BJM systems, such as excellent tensile adhesion strength, extended pot life, superior workability and flow, anti-sagging behavior, enhanced bonding strength, and improved crack resistance.

Tensilogel™ 5100B is specifically designed for the preparation of eco-friendly white and grey cement-based Block Jointing Mortar products, ensuring consistent quality and reliable performance.

+ Specifications

Recommonded Tentative Polymer Modified Cement Based BJM Formulation		
Material Name	% Formulation	Property
Dolomite Sand 600 micron	63	Performance of Adhestion properties conform to IS standard IS 15477:2019*
OPC Cement 43 Grade	35	
Tensilogel 5100B (SP)	2	
Total	100	
Note- You may use grey cement-35% & white cement-30%.		

TensiloGel™ 5100P
(Single Polymer for Curing Free Dry Plaster)

+Description

Tensilogel™ 5100P is a hybrid-technology–based single polymer specially developed for dry wall plaster applications. It is a precisely engineered blend of polymers such as RDP, MHEC, and other active functional ingredients. This unique formulation delivers all essential technical properties required for high-performance plaster systems, including excellent tensile adhesion strength and pot life, superior workability and flow, anti-sagging behavior, improved bonding strength, and crack resistance.

Tensilogel™ 5100P is specially designed for the preparation of eco-friendly internal and external lime- or white & grey cement-based curing free wall plaster products.

+ Specifications

Recommonded Tentative Polymer Modified Cement Based Dry Plaster Formulation		
Material Name	% Formulation	Property
Dolomite Sand 500 micron	66	Performance of Adhestion properties conform to IS standard IS 15477:2019*
Dolomite Powder	12	
White Cement	20	
Tensilogel 5100P (SP)	2	
Total	100	
Note- you may use grey cement-30% & white cement 25%.		

TensiloGel 5200C
(Single Polymer for Coarse Putty)

+Description

TensiloGel™ 5200C is an advanced single-polymer solution specially developed for coarse wall putty applications, eliminating the need for RDP, MHEC, PVA, or any additional additives.

It provides excellent adhesion, smooth surface finish, superior workability, and reliable water retention in one complete system. Designed for internal and external skim coat applications, TensiloGel™ 5200C simplifies formulation, enhances performance, and delivers durable, crack-resistant, curing-free wall finishes with consistent results.

+ Specifications

Recommonded Polymer Modified Cement Based Course Putty Formulations		
Material Name	% Formulation	Property
Dolomite Sand 500 micron	72	Performance of Adhestion properties conform to IS standard IS 17545:2021*
Dolomite Powder	15	
White Cement	12.0	
Tensilogel 5200C (SP)	1	
Total	100	

Tensilo Gel™ 5313N
(Single Polymer for White Cement Based Wall Putty)

+Description

TensiloGel™ 5313N is an advanced single polymer for wall putty premix that eliminates the need for RDP, MHEC, PVA, or other additives. It delivers excellent adhesion, smooth finish, superior workability, and reliable water retention in a single solution. Designed for internal and external skim coat applications, TensiloGel™ 5313N simplifies formulation, improves performance, and ensures durable, crack-resistant wall finishes.

+ Specifications

TensiloGel 5313N is an Advanced Single Solution For Wall Putty Preparation..

Recommonded Tentative Polymer Modified Cement Based Wall Putty Formulations		
Ingredient	% Formulation	Property
Dolomite 300 mesh	80.4	Performance properties conform to IS standard IS 17545:2021*
White Cement	18	
Tensilogel 5313N (SP)	1.6	
Total	100	

Instagel™ TA Tile Binder-1100
(Single Polymer for Tile Adhesive T-1 to T4)

Product Description

- TA Tile Biner-1100 is a specially formulated single polymer-based powder additive designed to enhance the performance of cementitious tile adhesives. When mixed with cement and graded sand as per the recommended formulation,
- TA Tile Biner-1100 improves bond strength, flexibility, water resistance, durability, and workability of tile adhesives.
- TA Tile Biner-1100 enables the preparation of high-performance T-1 to T-4 category tile adhesive suitable for fixing a wide range of ceramic, vitrified, porcelain, and large-format tiles on both floor and wall applications.
- The product is tested in accordance with IS 15477:2019 and EN 12004 standards, and its performance is verified by a NABL accredited laboratory, ensuring consistent quality and reliable field performance.
- TA Tile Biner-1100 provides a cost-effective solution for manufacturers production of premium-grade tile adhesives with controlled quality and reduced material cost.

+ Recommonded Tentative Formulations

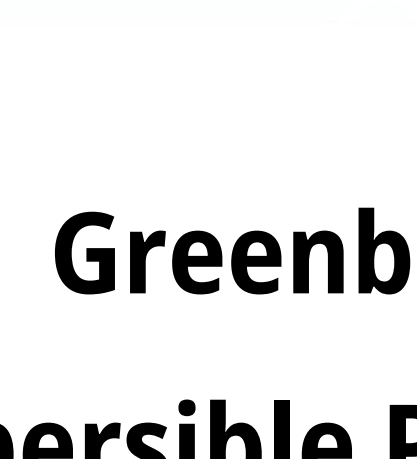
Recommonded Tentative formulations For All Types of Tile Adhesive (T1-T4)					
Ingredient	**% formulation Type- 1**	**% formulation Type-2**	**% formulation Type- 3**	**% formulation Type-4**	**Performance properties conform to IS 15477 :2019 & EN 12004 standards***
OPC Cement 53	35	40	45	50	
Sand (Silica/dolomatic/river	63.5	58	52.5	47	
TA Tile binder -1100	1.5	2	2.5	3	
Total	100	100	100	100	

Greenbuild™

Re-Dispersible Polymer (RDP)

Solutions

Normal RDP



Hydrophobic RDP

Ad. Hydrophobic RDP

Ad. RDP for TA

Flexigel ™ 9505
Re-Dispersible Polymer Powder (RDP)

+Description

Flexigel™ 9505 (RDP) is a re-dispersible co-polymer powder of vinyl acetate & a vinyl ester of versatic acid in a medium of polyvinyl alcohol that is readily dispersible in water and forms stable emulsion. This redispersible powder is especially recommended for blending with inorganic binders such as cement, gypsum and hydrated lime, or as a sole binder for the manufacture of construction adhesives. Flexigel™ 9505 performs improved adhesion, flexural strength, abrasion resistance and workability of modified compounds.

+ Specifications

Items	Specification
Appearance	White powder
water content (%)	≤1
Ash content (%)	12 ± 2
Bulk density (g/l)	450-600
Average particle size (μm)	80
PH Value	5.0-8.0

TensiloGel™ 5300W
(Hydrophobic RDP for Waterproof Putty)

+Description

TensiloGel™ 5300W is a high-performance hydrophobic polymer powder engineered to elevate the quality of modern dry-mix construction systems. Designed for formulations such as waterproof wall putty, mortars, plasters, and tile grouts, it delivers exceptional water repellency, enhanced adhesion, and superior durability.

Powered by an optimised composition of vinyl acetate, vinyl esters of versatic-acid, and advanced silane/siloxane technology, TensiloGel™5300W improves workability, boosts flexural strength, and increases abrasion resistance—helping manufacturers create premium, long-lasting products that stand out in the market.

+ Specifications

TensiloGel™ 5300W is a hydrophobic polymer for dry mix products.

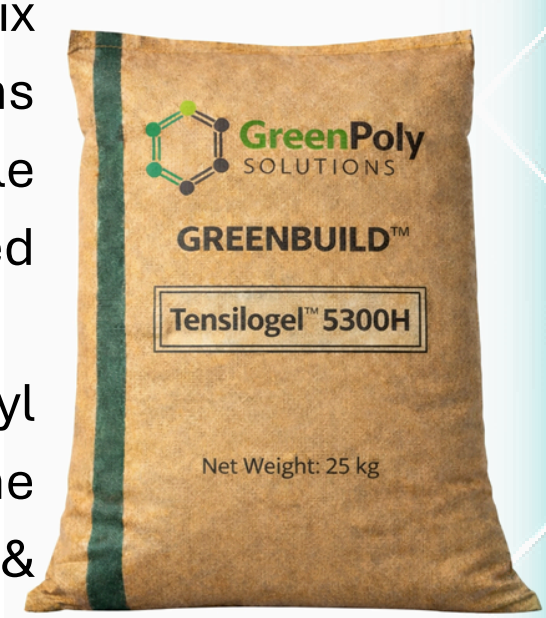
Property	Test Method	Value
Appearance	Visual	White/off powder
Water content (%)	EN ISO 3251	Max 2.0 %
Bulk density (kg/m^3)	EN ISO 60	400-700
Ash content (950^{O}C)	Manufacturer's method	12 ± 2
Particle size @ 500 µm	EN ISO 4610	Max. 4.5 %
pH Value	ISO 4316	7-10

*For Formulation Guideline Contact us.

TensiloGel™ 5300H
(Advance Hydrophobic RDP for Waterproof Putty)

+Description

TensiloGel™ 5300H is a high-performance hydrophobic polymer powder engineered to elevate the quality of modern dry-mix construction systems. Designed for premium formulations especially for waterproof wall putty, mortars, plasters, and tile grouts, it delivers exceptional water repellency, enhanced adhesion, and superior durability.



Powered by an balanced combination of vinyl acetate, vinyl esters of versatic-acid, and advanced silane/siloxane technology, TensiloGel™ 5300H improves adhesion & workability, boosts flexural strength, and increases abrasion resistance with excellence water repellency.

+ Specifications

TensiloGel™ 5300H is a hydrophobic polymer for especially premium WP wall Putty.

Property	Test Method	Value
Appearance	Visual	White/off powder
Water content (%)	EN ISO 3251	Max 2.0 %
Bulk density (kg/m^3)	EN ISO 60	400-700
Ash content (950^{O}C)	Manufacturer's method	20 ± 2
Particle size @ 500 µm	EN ISO 4610	Max. 4.5 %
pH Value	ISO 4316	7-10

Instagel™ 4100T
(Advance RD Powder for T1–T4 Tile Adhesives)

+Description

Instagel™ 4100T is an advanced re-dispersible polymer (RDP) solution specially designed for T1 to T4 tile adhesive formulations. It is based on a vinyl acetate–versatic acid vinyl ester copolymer, engineered with integrated active components and organic functional beads.

This unique hybrid polymer technology delivers outstanding adhesion performance under dry, wet, and heat conditions, while ensuring smooth application, enhanced flexibility, and superior surface along with long-lasting durability in demanding installation environments.

+ Recommonded Tentative Formulations

Recommonded Tentative Tile Adhesive formulations For Type 1 to Type 4 OR C2T to C2TES2					
Ingredient	**% formulation Type-4**	**% formulation Type-3**	**% formulation Type-2**	**% formulation Type-1**	
OPC Cement 53	50	45	40	35	**Performance properties conform to IS 15477 :2019 & EN 12004 standards***
Sand (Silica/dolomatic/river)	47.1	52.6	58.2	63.7	
MHEC	0.4	0.4	0.3	0.3	
InstaGel 4100T (Advance RDP Solution for T1–T4 Tile Adhesives”	2.5	2.0	1.5	1.0	
Total	100	100	100	100	

Greenbuild™

MHEC/HEC Solutions

Hydroplus Gel 9010-MHEC

Hydroplus Gel -HEC 7525 GPR

Hydroplus Gel™ 9010
(MHEC -Methyl Hydroxy Ethyl Cellulose)

+ Description

Hydroplus Gel™ 9010 is a Methyl Hydroxyethyl Cellulose (M.H.E.C.). It is designed for cement based wall putty, tile adhesive, tile grout, mortar, lightweight plastering, bonding & anti-cracking mortar etc. Hydroplus gel also improves the workability and boosts water retention. The selected particle size distribution & cellulose derivatives offer development of perfect viscosity and quick dissolution. It is compatible with all minerals, binders and additives.

+ Specifications

Test Item	Unit	Specification
Appearance	NA	White/0ff white powder
Loss on Drying	WT%	≤ 6.0
Ash Content	WT%	≤ 5.0
pH	g/ml	5.0-8.0
Viscosity	mPa.s	180,000-210,000 (NDJ-1, 2% solution, 20℃)

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