



# Polymeric Sand for Pavement Joints

Easy to use  
Stays within joints

## Installation Guide



1  
INSTALLATION



2  
COMPACTION



3  
WETTING



4  
DRYING



**TECHNISEAL POLYMERIC SAND FOR PAVEMENT JOINTS** is a high-tech mix of graded sand and binder, specially formulated for the filling of narrow or wide joints when installing pavers or slabs, or when replacing existing joints. Unlike conventional sand, it stays in place and remains stable.

### HP POLYMERIC SAND

This **HIGH-PERFORMANCE** mix, made of the latest generation of polymers, provides unrivalled effectiveness and durability. It is specially formulated for the filling of paver and slab joints in highly-exposed areas: public ways (subject to heavy traffic and intensive cleaning), sloped driveways (subject to fast erosion due to run-off), pool decks (frequently soaked), etc. It is also recommended for the replacement of existing joints.

### RG+ POLYMERIC SAND

This product, that resists weather quickly after being activated, is designed to make joint stabilization easier than ever. It is recommended for the filling of paver or slab joints on surfaces exposed to normal traffic, such as driveways, terraces, backyards, garden paths, access roads, etc.

#### Best of Class

- Applied dry - Hardens after being misted
- Inhibits weed growth
- Resists ants or other insect infestation
- Resists erosion - water, frost heaving, wind, power washing, etc.
- Stabilizes pavers - Strengthens interlocking

# Before Beginning Installation

Choose the right TECHNISEAL POLYMERIC SAND according to paver joint size, job configuration and expected traffic.

- High-traffic areas
  - Strong sloped surfaces
  - Pool decks or other frequently soaked surfaces
  - Replacement of existing joints
  - Joint size:  
Maximum width: 1.0 inch  
Minimum depth: 1.25 inch
- Normal-traffic areas
  - Driveways
  - Terraces
  - Garden paths
  - New installations
  - Joint size:  
Maximum width: 0.5 inch  
Minimum depth: 1.5 inch





# HP

# RG+

# How to DO IT RIGHT

To get the most out of TECHNISEAL POLYMERIC SAND, follow the 4 easy steps outlined in this guide and pay special attention to the important directions in this check list.

## CHECK LIST

Steps	Checked	IMPORTANT!
 INSTALLATION	<input type="checkbox"/>  <input type="checkbox"/>	Check the weather forecast: A temperature above 32°F for the full drying period and no precipitation for the next 3 hours (RG+) or 24 hours (HP).  A perfectly dry surface.
 COMPACTION	<input type="checkbox"/>	<b>Essential Step</b> Mechanical or manual compaction is necessary.
 WETTING	<input type="checkbox"/>  <input type="checkbox"/>	Remove all SAND residue with a broom and a leaf blower before misting the surface  Moisten SAND joints down to 1.5 inch.
 DRYING	<input type="checkbox"/>	HP SAND must dry completely before being exposed to water (rain, splashes, etc.). RG+ SAND will resist weather about 2 hours after wetting but needs to dry completely to reach its full strength.

## WARNING

Do not mix POLYMERIC SAND with cement or sand. Avoid excessive wetting or flooding of paved areas during installation. Not for use on submerged or constantly wet surfaces. Do not use as a substitute for mortar (e.g. paving stones installed over a concrete bedding). Use on pavers or slabs installed over a drainage bed (sand-set).

# 1 – Installation



## Weather conditions:

Use the product in dry weather and when there is no rain forecasted for 3 hours (RG+ SAND) or 24 hours (HP SAND). Temperature should remain above 32°F during the entire drying process.

The surface must be completely dry.

**Why?** To prevent moisture from activating the polymer that could make the SAND stick to the surface and stain it.



Spread product uniformly over the surface.



Using a push broom, sweep the product so as to fill the joints completely, down to their full depth. Avoid sweeping product over long distances so that the integrity of the mix is preserved.

**Why?** Sweeping product over long distances creates a screening effect that drags most of the coarse particles while leaving behind the finer ones that contain the binders and polymers.

# 2 – Compaction



This step is essential to obtain solid, durable joints.

**Why?** COMPACTION eliminates most voids and creates perfect contact between the aggregates, binders and polymers. This ensures a dense and solid joint that lasts.

**Why?** With most voids eliminated, the product absorbs much less water during the wetting step and dries much faster.

The compaction method is determined by the thickness of the pavers and slabs installed.



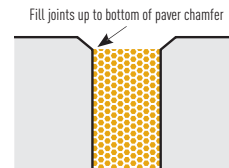
## Pavers 2" thick or more:

Pass a plate vibrator over the entire surface to fully firm up the joints.



## Slabs or pavers less than 2" thick:

If mechanical compaction is not recommended by the manufacturer, hammer the entire surface with a rubber mallet to create a vibration that will fully firm up all the joints.



Repeat steps 1 & 2 until joints are completely packed. Joints must be filled up to the bottom of the paver chamfer, or at least up to 1/8" below the top of the pavers.

## 3 – Wetting



**Important:** Sweep the surface with a fine bristle brush and remove all residues with a leaf blower.

**Why?** To avoid having product residue activated with water and stick to the surface of the pavers or slabs



Wetting should take place in sections of 250 (RG+) to 500 (HP) sq. ft at a time. Ensure that the wetting of one section is finished before another section is started.

**Why?** Wetting large surfaces all at once takes too much time; the product starts to dry on the surface and is then difficult to moisten properly. This is especially true for RG+ SAND and that's why the recommended wetting section size should be no larger than 250 sq. ft.



Produce a very fine mist so that the water falls gently without displacing the POLYMERIC SAND. Moisten the whole section lightly and in a continuous manner; avoid flooding the surface and causing runoff. Using a small screwdriver, verify the progress of the wetness in several areas by emptying a small portion of the joint. Once the joints are moistened 1.5 inch deep, stop watering the section and move on to the next one.

**Why?** With the right amount of water, drying time is considerably reduced.

**Why?** Too much water would cause the binder to run off and prevent the SAND from solidifying.



## 4 – Drying



To ensure optimal cohesion and long-term stability, POLYMERIC SAND must dry completely after initial wetting. Drying time will be shorter if the climate is warm and dry, and longer if the weather is cool and damp.

**HP SAND:** In cases where a surface jointed with HP SAND could be exposed to water during the drying period, protect it with a tarp. Remove the tarp as soon as the risk of exposure is past.

**Why?** Like paint, POLYMERIC SAND needs to dry completely to polymerize and provide all its benefits.

Downtime before using:

- Pedestrian areas: no specific considerations.
- Motor-vehicle areas: 24 to 48 hours.

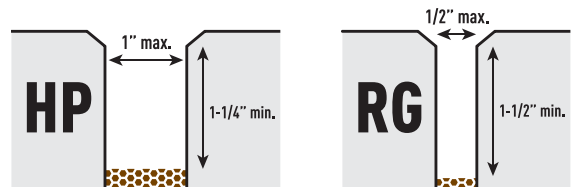
To preserve the appearance and the integrity of pavers installed with TECHNISEAL POLYMERIC SAND, it is advisable to treat the surface with a TECHNISEAL PROTECTIVE PRODUCT. Wait 30 days after installation before cleaning and sealing.

## Joint Replacement

For joint replacement projects, it is necessary to first empty the joints before applying new POLYMERIC SAND.

Use a pressure washer to empty the joints completely

**Why?** POLYMERIC SAND performs at its best when it is at the proper depth; it then adheres to the walls of the pavers.



Minimum required depth and maximum width

# Treatment for Pavers and Slabs

## Ultimate Hardscape Protection



**Beautifies  
and Protects**



**Before**



**After (WL4 - Wet look)**



In 1984, TECHNISEAL introduced the first premium products engineered to clean and protect interlocking pavers. Today, we are still the leader in the field, and our "best of class" formulas are recognized around the world by major paver manufacturers.

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# Treatment

## for Pavers and Slabs



*Beautifies and Protects*

*Choice of finishes*



Invisible



Natural



Wet Look

# Application

# Guide



CLEANING



PREPARATION



PROTECTION



Concrete pavers are chosen for their long-lasting beauty. However, this high-quality material is not impervious to oil and other substances that can penetrate it and become difficult to remove. To preserve pavers' original appearance, it is therefore important to clean and protect them right from the start.

In 1984, TECHNISEAL introduced the first premium products engineered to clean and protect interlocking pavers. Today, we are still the leader in the field, and our "best in class" formulas are recognized around the world by major paver manufacturers.

Ask for TECHNISEAL TREATMENT, the best there is to clean and protect your concrete pavers and slabs.

#### Benefits

- Choice of wet look, natural look or invisible protection
- Protects against stains and makes cleaning easier
- Removes oil, rust, tar, efflorescence, etc.
- Easy to use and very durable



1 800 465-7325  
techniseal.com

# Techniseal Products for pavers and slabs

TECHNISEAL line includes all essential products for cleaning, protecting and maintaining concrete pavers and slabs.

To obtain the professional results you are looking for, be sure to follow directions given in this guide.

## PRODUCTS REQUIRED FOR TREATMENT

mandatory		if required
or	iN Protector (121-31X) invisible – non-film-forming – water-based	Dirt and Grease Cleaner (121-511) Rust Remover (121-521) Paint, Tar and Rubber Remover (121-541)
	EV Protector (121-30X) natural look – film-forming – water-based	
	WL4 Protector (121-13X) wet look – film-forming – solvent-based	
	WLP Protector (121-293) wet look – film-forming – solvent-based	
	CE Enviro Protector (121-33X) color enhancer – film-forming – water-based	
WR Water Repellent (121-383) invisible – non-film-forming – water-based		
and		
or	Efflorescence Cleaner (121-53X)	
	Hardscape Cleaner (151-503)	
and		
Sprayer (145-900)		

Surface to be treated	Protector*	Efflorescence Cleaner*	Hardscape Cleaner*
200 sq. ft.	1.5 gallon	1 gallon	1 quart
400 sq. ft.	3 gallons	2 gallons	2 quarts
600 sq. ft.	4.5 gallons	3 gallons	3 quarts
800 sq. ft.	6 gallons	4 gallons	1 gallon
1,000 sq. ft.	7.5 gallons	5 gallons	1.25 gallon

\*Required quantity may vary depending on surface condition and selected protector.

# How to do it?

TECHNISEAL Treatment for Pavers and Slabs is carried out in 3 steps:



Removal of stains with **GREASE CLEANER**, **RUST REMOVER** and **TAR REMOVER**.



Preparation of surface with **EFFLORESCENCE CLEANER** or **HARDSCAPE CLEANER**.



Application of appropriate **PROTECTOR**.

In carrying out these 3 steps, please carefully follow the methodology of this guide and the directions that appear on each product's label.

## IMPORTANT

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For uniform results, let efflorescence (whitish salt) rise to the surface for at least 60 days before cleaning and sealing new pavers. This delay is not mandatory prior to application of non-film-forming WLP and iN PROTECTORS.

Do not apply at a temperature lower than 50°F or under blazing sun.

Wear appropriate protective clothing (gloves, boots, goggles, etc.).



Working your way up the slope, remove oil, rust, paint and other stains one at a time, using appropriate products.



## **DG Dirt and Grease Cleaner** 1 qt. (121-511)

- Removes motor oil and other greasy stains
- Dissolves, dislodges and encapsulates grease



## **RR Rust Remover** 1 qt. (121-521)

- Effectively removes stains caused by steel, rusted metal objects, fertilizer, etc.
- Won't discolor the material



## **PTR Paint, Tar and Rubber Remover** 1 qt. (121-541)

- Effectively dissolves paint, tar or bitumen, rubber and chewing gum

## 2 - Preparation



To obtain a uniform appearance, it is recommended to prepare the entire surface prior to PROTECTOR application.

**New pavers:** dissolve efflorescence (whitish salt) with EFFLORESCENCE CLEANER.

**Old pavers:** remove ground-in dirt with HARDSCAPE CLEANER.



### EC Efflorescence Cleaner 1 gal. (121-53X)

- Dislodges efflorescence and ground-in dirt
- Recommended prior to PROTECTOR application
- Ensures even cleaning and brightens up the color
- Automatic dilution with adaptable SPRAYER
- Concentrated – 1 gal. cleans up to 200 sq. ft.



### HC Hardscape Cleaner 1 gal. (121-503)

- Multi-surface cleaner
- Dislodges ground-in dirt
- Recommended prior to PROTECTOR application
- Ensures even cleaning and brightens up the color
- Concentrated – 1 gal. cleans up to 800 sq. ft.



### Sprayer (145-900)

- Fits on the container of EFFLORESCENCE CLEANER.  
Connected to a garden hose, it facilitates application and provides a perfect water-CLEANER mix automatically.



Protect the surface by applying the appropriate PROTECTOR .



**WL4 Protector** 1 gal. – 5 gal. (121-13X)

*wet look*

- Enhances original color
- Provides a luxurious wet look
- Forms a long-lasting protective film



**WLP Protector** 1 gal. – 5 gal. (121-293)

*wet look*

- Enhances original color
- Provides an elegant mat finish
- Non-film-forming – Won't make surface slippery
- Also recommended for natural stones and retaining walls



**CE ENVIRO Protector** 1 gal. – 5 gal. (121-33X)

*color enhancer*

- Brightens up the original color
- Provides a luxurious satin finish
- Water-based – Indoor/outdoor use
- Film-forming



## EV Protector 1 gal. – 5 gal. (121-30X)

### *natural look*

- Preserves the natural look of pavers†
- Forms a highly resistant shield
- Water-based – Environmentally friendly
- Film-forming

† May slightly darken the surface.



## iN Protector 1 gal. – 5 gal. (121-31X)

### *invisible*

- Protects without changing the appearance
- Protects against oil, water and dirt
- Non-film-forming – Won't make surface slippery
- Same-day application
- Water-based – Environmentally friendly



## WR Water Repellent for Retaining Walls

1 gal. (121-383)

### *invisible*

- Protects without changing the appearance
- Penetrates deeply to repel water
- Protects against salt and frost
- Helps prevent the appearance of efflorescence
- Non-film-forming

## BENEFITS

- **Protect against oil and dirt**
- **Make surface easier to clean**
- **Resist salt, frost and UVs**
- **Penetrate deeply – Won't peel or discolor**



Before



After (WL4 – Wet look)

# Protector Selector

	Color-Enhancing			Invisible		Natural Look	
	WL4	WLP	CE	iN	WR	EV	JS
<b>APPLICATION</b>							
Concrete, pavers and slabs	●	●	●	●		●	●
Natural stone (unpolished)	●	●	●	●		●	
Colored stamped concrete	●	●	●	●	●	●	
Retaining walls		●		●	●		
Poured concrete / wet-cast slabs				●	●		
<b>TECHNISEAL FEATURES</b>							
Film-forming <sup>1</sup>	●		●			●	●
Non-film-forming <sup>2</sup>		●		●	●		
Water-based			●	●	●	●	●
Solvent-based	●	●					
Volatile Organic Content (g/L)	395	395	45	4.2	39	34	21
Coverage sq. ft./gal.	Up to 150	Up to 120	Up to 175	Up to 120	Up to 150	Up to 175	Up to 140
Can recoat*	WL4, WLP, WR	WLP	CE	iN	WR	EV, JS	BARE SURFACE ONLY
Can be recoated with*	WL4	WLP, WL4	CE	iN	WR, WL4	EV	EV

<sup>1</sup>Each Techniseal **FILM-FORMING PROTECTOR** creates a protective shield that leaves a distinctive sheen and feel. By filling the capillaries of the material, it also prevents dirt, grease and other contaminants from becoming encrusted, making it the most efficient stain-protection solution.

<sup>2</sup>Each Techniseal **NON-FILM-FORMING PROTECTOR** protects by having special repelling agents penetrate deep into the material. These agents bond with the minerals without leaving a coating on the surface. This innovative technology is especially suited for application immediately upon completion of paver installation and for materials such as SRWs and natural stones. It is also recommended when slip-free applications are required such as for pool decks, steeply sloped driveways and areas used by individuals of limited mobility.

This chart was designed to underline the available protector options. **In all cases, to ensure the results will meet your expectations, always test the selected product on a small hidden area.**

\*Recoating results can vary; only recoat when previous PROTECTOR surface is completely worn down. Techniseal can not guarantee recoating results when another brand of sealer has been previously applied.