

CONCRESlVE® 2525

Solvent free epoxy resin binder

DESCRIPTION

CONCRESlVE 2525 is a two component, solventless epoxy resin that can be used to produce a range of epoxy resin mortars for different applications. The resin system is formulated to bond to both dry and damp surfaces.

FIELDS OF APPLICATION

CONCRESlVE 2525 adheres to most surfaces after proper preparation. It is recommended to be held always in stock as a general purpose epoxy system that can be used with suitably graded fillers for a variety of unforeseen applications that arise on sites frequently, such as;

- bonding fresh concrete to set concrete especially at construction joints.
- bonding cementitious repair mortars or steel to concrete or mortar substrates.
- grouting of anchor bolts, dowels, etc.
- rapid repairs to structural concrete.
- patch repairs to floors, stair case noses, walls, etc.

Note: While **CONCRESlVE 2525** is a versatile resin system, its performance depends entirely on the proportion, type and grading of fillers used and the method of application followed.

For jobs planned in advance, it is recommended to select a BASF Construction Chemicals product designed for the specific type of application to achieve optimum results.

FEATURES & BENEFITS

High elastic modulus	Effective transfer of stresses at bond interface.
Versatile	No need to stock several different types of resin systems for emergency use.
Excellent adhesion	Renders the bonded parts monolithic. Minimises water ingress through cold joints.
Good bond to damp surfaces	Advantage while bonding fresh concrete or mortar and in humid environments.
Pre-proportioned	Avoids batching errors of resin system. Minimises wastage.

TYPICAL PERFORMANCE DATA

after 7 days cure)
 Compressive strength : 90 N/mm²
 Flexural strength : 40 N/mm²
 Bond strength : > 2.5 N/mm²
 (Failure in concrete)

Chemical Resistance

CONCRESlVE 2525 resists most common organic and inorganic acids in diluted form, alkalis, oils, grease, fuels, water, etc.

Chemical resistance depends on the chemicals involved, their concentrations, temperature and degree of exposure. Good housekeeping practices such as immediate clean up of all spillages will greatly extend the service life.

PROPERTIES

	Part A	Part B
Supply form	liquid	liquid
Colour	Clear	Amber
Mixed system		
Mix ratio (A:B) by volume	: 3:1	
Colour	: Amber	
Density	: 1.09 ^{±0.01} kg/L	
Application temperature range	: 5°C - 30°C	
Minimum cure temperature	: 5°C	
Pot life at 25°C (1 L)	: 30 mins.	

APPLICATION

Surface preparation

Correct substrate preparation is critical for optimum performance. Surfaces should be structurally sound, clean, and free from loose particles, oil, grease, or any other contaminants.

Remove oil grease and wax contaminants by scrubbing with industrial grade detergent or degreasing compounds followed by mechanical cleaning. Cement laitence, loose particles, mould release agent, curing membrane, and other contaminants must be removed from the surface by wet grit blasting, high pressure water jetting (approximately 150 bars) or such other effective methods.

Make other necessary preparations specific to the type of application.

Mixing

Mechanical mixing is necessary. A slow speed (600 rpm) drill, fitted with a helical or a rod type paddle depending on the filler content, is recommended.

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CONCRESlVE[®] 2525

Remove the rims from tins to ensure all of each component is used. Stir individually and then pour out the entire contents of Part A and Part B into a clean, dry pail for subsequent mixing. Avoid part mixing to prevent batching errors.

If part mixing is necessary, stir individually and then measure out each component precisely in the proper volumetric ratio. Ensure that the remaining contents of each container are not contaminated.

Mix thoroughly for 2 minutes. Depending on the application, add the required quantity of filler while continuing to mix until a homogenous mix is obtained.

Binder to Aggregate ratios (v/v)

Use only graded, clean and dry sands as aggregates. The maximum size of the aggregate should approximate to 1/3 of the minimum required thickness of application.

The following mix ratios (**CONCRESlVE 2525** : Agg), v/v, are given as a guide. Consideration should also be given to the volume of mortar and the associated exotherm.

Application	Consistency	Mix
Bonding fresh concrete or mortar to set concrete	Brushable coating	1:0
Grouting of gaps < 100 mm.	Fluid grout	1:2
Grouting of larger gaps, patching of pot holes, anchoring bolts	Flowable mortar	1:3
Structural repairs, patch repairs	Trowellable mortar	1:4
Dry packing	Stiff mortar	1:5

Placing

Place the mixed material within its pot life.

Note : Pot life given above is for the mixed resin system. For the filled material, it depends upon the quantity mixed and the filler content.

Neat **CONCRESlVE 2525** can be applied by brush or roller; paste and mortar by trowel; fluid grout and flowable mortar by pouring and stiff mortar by trowel followed by ramming with a rod.

CURING

CONCRESlVE 2525 is self curing. Curing time depends upon the ambient temperature, quantity mixed and placed and the filler proportion. Filled mortar hardens within 24 hours @ 25°C, and achieves full cure in 7 days.

CLEANING

Clean the tools and equipment first with rags, then wipe off using a solvent such as acetone or methylene chloride before the bonding agent sets.

ESTIMATING DATA

The consumption of **CONCRESlVE 2525** depends upon the proportion of filler, surface absorption, roughness, loss and wastage.

PACKAGING

CONCRESlVE 2525 is supplied in 5 L packs.

SHELF LIFE

CONCRESlVE 2525 can be stored in tightly sealed original packing for 12 months, if stored at a temperature below 34°C.

PRECAUTIONS

Health : **CONCRESlVE 2525** contains certain chemicals which can cause skin irritation if exposed and respiratory reaction if inhaled. Wear gloves, masks and use barrier creams while handling the product. Wash thoroughly after handling.

Should skin contact occur wash immediately with soap and water, or an effective hand cleaner.

In case of accidental eye contact wash with copious quantities of water and seek medical help immediately.

If ingested, do not induce vomiting. Consult doctor immediately.

The vapours of solvents used for cleaning can be irritating. It is therefore recommended that cleaning is done in well ventilated areas.

Fire : **CONCRESlVE 2525** is combustible.

For detailed Health, Safety and Environmental recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

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