BASF
The Chemical Company

CONCRESIVE® 2525

Solvent free epoxy binder and structural adhesive

DESCRIPTION

CONCRESIVE 2525 is a solvent free, high performance, versatile epoxy binder that can be used to produce a range of epoxy resin based mortars. **CONCRESIVE 2525** can be applied to both dry and damp surfaces and adheres to most substrates after proper preparation.

RECOMMENDED FOR

- Structural bonding of new to old concrete
- Production of epoxy resin mortars for floor toppings
- Production of epoxy resin mortars to grout bolt holes
- Steel bonding
- Rapid structural repair of concrete
- Grouting dowels
- Priming of concrete floors prior to applying Mastertop Flooring System and Conideck/Coniroof Membrane Systems to achieve structural bond

FEATURES AND BENEFITS

- **Excellent adhesion**
- **Adheres to wet or damp surfaces**
- **Solvent free**
- **Pre-proportioned packaging**
- **Multi-purpose binder**
- **Low viscosity**
- **High abrasion resistance**
- **Excellent chemical resistance**
- **Non shrink**
- **Approved to AS/NZS 4020:2002 for contact with Potable Water**
- **Cures hard at low temperatures**

PERFORMANCE DATA

(Typical) Binder only at 23°C

Compressive Strength	7 days	95 MPa
Flexural strength	7days	40 Mpa
Tensile strength	7days	60 MPa
Compressive Strength	24 hours	58 MPa
Heat deflection temp.		80°C
Compressive modulus		3.4 GPa
Bond strength		>2.5 MPa (concrete failure)
Abrasion Resistance ASTM C779		0.24mm/30 mins.

Mortar Performance (Typical) Ultimate @ 23°C

Fluid Grout F1 Filler	
Compressive strength	80MPa
Tensile strength	50MPa
Flowable Mortar F1 Filler	
Compressive strength	75MPa
Tensile strength	42MPa
Mortar F1 Filler	
Compressive strength	64MPa
Tensile strength	36MPa
Dry Pack Mortar F2 Filler	
Compressive strength	60MPa
Tensile strength	34MPa

Chemical Resistance

CONCRESIVE 2525 resists most common organic and inorganic acids in diluted form, also resistant to alkalis, water, oils, grease, etc. Chemical resistance depends on the chemicals involved, their concentration, temperature and degree of exposure. Good housekeeping practices such as immediate clean up of all spillages will greatly extend the service life.

SPECIFICATIONS

	Part A	Part B	Mixed
Supply Form	Liquid	Liquid	Liquid
Colour	Clear	Amber	Amber
Mix Ratio			3:1 pbv
Density (Mixed			1.1kg/L
Application Temperature			Min. 5°C Max. 35°C

APPLICATION

Surface preparation

To obtain maximum performance:

1) Concrete should be well cured, at least 28 days old and have a minimum compressive strength of 25MPa.
2) Clean surface thoroughly to remove all contaminants such as dirt, oil, grease, wax, rust and coatings.
3) Remove laitance and roughen surface to ensure good bonding by chipping, scabbling, grit blasting or acid etching. Allow to dry thoroughly, for maximum absorption and adhesion.
4) Shot or track-blast to expose firmly held substrate.

Mixing

Proportion part kits accurately mixing only what can be used in les than 30 minutes. Thoroughly stir Part A, add Part B (3:1 parts by volume respectively) and blend thoroughly using a slow speed mixer fitted with a suitable paddle. When being used as a grout or mortar, only clean kiln dried sand may be mixed in. The maximum aggregate size should approximate to 1/3 of the minimum required depth. Add Mastertop X1 colour packs into floor screeds to ensure colour throughout flooring system. The following mix ratios are given as a guide. Consideration should be given to the volume of mortar and potential problems associated with exotherm.

Binder:Aggregate Ratio

v/v

1:2	Fluid grout
1:3	Flowable mortar
1:4	Mortar

BASF
The Chemical Company

CONCRESIVE® 2525

1:5 'Dry pack' mortar

Application
The **CONCRESIVE 2525** mortar or grout may be placed on to the surface using standard grouting or trowelling techniques.

Note: The surface needs to be primed when using "dry" mortars. Use **CONCRESIVE 2525 Binder** only to prime and apply wet on wet, when aggregate ratio is over 1-3, resin to aggregate. Should **CONCRESIVE 2525** cure when priming, seed with F1 or F5 Filler.

Curing
Cure time will vary depending on the ambient temperature, quantity mixed and placed, and the rate of sand addition. **CONCRESIVE 2525** will have fully cured after 7 days at 23°C.

POT LIFE

Pot life will vary depending on the ambient temperature, quantity mixed and placed, and the filler content. A 2 litre unit of **CONCRESIVE 2525** will have a pot life of approximately 30 minutes at 23°C.

ESTIMATING DATA

V/V Binder Aggregate Ratio
1:2 - F1 Filler Yield = .75 total ratio
1:3 - F1 Filler Yield = Filler Volume (3 litres)
1:4 - F1 Filler Yield = Filler Volume (4 litres)
1:5 - F2 Filler Yield = Filler Volume (5 litres)
Priming coverage 4-6m²/litre.
Wet to dry bonding concrete - approximately 4m²/litre depending on profile of concrete.

CONCRESIVE® 2525

CLEANING

Use Thinner No. 1 to clean equipment and tools before the material hardens.

SHELF LIFE

CONCRESIVE 2525 can be stored in tightly closed original containers for 12 months at moderate temperature.

PACKAGING

CONCRESIVE 2525 comes in 2 litre, 5 litre and 20 litre kit sizes.

PRECAUTIONS

Read all safety directions and warnings on tins before use.

1) As with all epoxy products, wear protective overalls and gloves - prolonged contact with skin should be avoided as it could produce dermatitis, particularly with people whose skin may be sensitive to epoxy resin system.
2) Ensure adequate ventilation.
3) Mix entire contents of each unit as supplied. Do not attempt to split units unless accurate measuring can be assured.
4) Do not use at temperatures of less than 5°C unless artificial means of heating can be used to assist cure. During cold weather Part A should be pre-warmed to between 20°C and 30°C.

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Construction Chemicals **Material Safety Data Sheet (MSDS**) from our office or our website.

ACc2525/13/0411

STATEMENT OF RESPONSIBILITY	The technical information and application advice given in this **BASF** 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. **BASF data sheets are updated on a regular basis and it is the user's responsibility to obtain the most recent issue.**
NOTE	Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

BASF Australia Ltd A.B.N. 62008437867
Sydney-Head Office: 11 Stanton Road Seven Hills, NSW 2147 Australia Ph. (02) 8811 4200
Newcastle: (02) 4961 3819 **Brisbane:** (07) 3633 9900 **Townsville:** (07) 4774 7344 **Melbourne:** (03) 9549 0300
Adelaide: (08) 8139 7500 **Perth:** (08) 9366 2600 **Kalgoorlie:** 0417 772 355
BASF New Zealand Ltd **Office:** 45 William Pickering Drive, Albany, Auckland Ph: (09) 414 7233
BASF Websites: **www.basf-cc.com.au** **www.basf-cc.co.nz** **www.meyco.basf.com**