

MANUAL SECTION	ISSUE DATE	AUTHORISED	REPLACES	PAGE
Construction	July 2014	NCP	-	

Screeds for Floors

Select a Mastertop Floor repair Screed for your application.

1. P505 Feather Finish 4.5 kg
2. P510 Self levelling , general purpose 20 kg
3. P515 Self levelling, Ultra smooth High spec 20 kg
4. P530 Bulk fill, self smoothing economical grade 20 kg.
Will need finishing with P510 , 505
5. P545 Trowel & rapid 20 kg



	Compressive strength	Working time mins	Foot traffic, mins	Purpose
P505	n/a	20 mins	approx. 30 –60 mins	Very fine flushing and finishing compound
P510	27 mpa	30mins	approx. 3 hrs @23c	Self levelling compound
P515	30 mpa	30 mins	approx. 2hrs @ 23c	Self levelling compound; Very fine/smooth finish
P530	25 mpa	30 mins	approx. 3 hrs @ 23 c	Bulk fill , self smoothing compound; economy.
P545	>35 mpa	20 mins	approx. 1 hr @ 23c	Rapid set, trowel, leveling compound

PRIMING: Always prime with Duraseal to help reduce air bubbles and improve bonding. Bubbles or blisters are usually due to the lack or insufficient priming. Sometimes two coats of primer is necessary . Always prime the first layer if a second layer of self levelling is going over a first. Doing this without priming always results in bubbles or blisters.

All data on www.nuplexconstruction.co.nz / adhesives page / screeds
0508-882288
ncpsales@nuplex.com



The Chemical Company

MasterTop[®] 505 (Formerly known as Mastertop P-5)

Rapid-setting feather finish cementitious floor underlayment

DESCRIPTION

MasterTop 505 is used to finish and smooth a variety of surfaces including concrete, underlayments, wood, residential vinyl, ceramic/quarry tiles, terrazzo and adhesives. Combined with water, **MasterTop 505** mixes to a creamy smooth consistency for ease of application. **MasterTop 505** is a rapid-setting, aggregate-free, polymer modified cement-based finishing underlayment.

RECOMMENDED USES

- Skim coating and smoothing rough concrete
- For filling minor voids, holes and cracks in concrete and underlayments
- Levelling and smoothing wood underlayment seams and joints
- Levelling and filling embossed sheet goods
- Skim coating over ceramic tile
- Skim coating over adhesive residue or membranes that are thin, well bonded, structurally sound and non-water soluble

FEATURES AND BENEFITS

- **Rapid setting** – downtime is minimised for lower installed cost
- **Compatible with most flooring adhesives** – one product for numerous applications
- **Can be feather-edged** – high coverage rates yield lower overall material costs
- **No priming** – extra steps and time are eliminated
- **One-component polymer modified** – only water is needed for mixing

PROPERTIES

VOC content: Test method: SCAQMD 304-91	18 g/L
---	--------

APPLICATION

Surface Preparation

Remove all grease, oil, dust, residual curing compound, mould release agent or other contaminant that could impair adhesion. Laitance should be removed by light shot blasting or grinding. Mechanical wire brushing may be appropriate for small areas.

Do not use acid etching, solvents, or cleaning compounds for surface preparation.

MasterTop 505 is for interior installations only. Do not use in areas of constant or intermittent water exposure. Do not apply over pressboard, gypsum-based substrates, or similar unstable substrates.

Subfloors to receive **MasterTop 505** must be a minimum 10°C and must be free of surface moisture. Consult the chosen flooring manufacturer for recommended installation temperatures and the maximum allowable moisture content and vapor drive of the substrate for installation of their flooring product.

Before the application of **MasterTop 505**, all existing adhesive residues over concrete must be tested for water solubility to ensure they will not react with the new flooring adhesive.

Application

MasterTop 505 is used to smooth substrate transitions and ridges, and to fill cracks, knots, and joints in wood underlayment. **MasterTop 505** is also used for a true featheredge skimcoat over all types of interior concrete, masonry, wood, terrazzo, and quarry and ceramic tile.

MasterTop 505 can be used over structurally sound, permanently bonded, properly prepared residues of non-water soluble adhesives that may exist on concrete installations. Adhesive residue on concrete must be inert to the new adhesive being installed, and the chosen floor covering must not be sensitive to adhesive migration. Consult BASF Technical Representative for specific installation recommendations.

Mixing

The mixing ratio is two parts **MasterTop 505** to one part water by volume to preferred consistency.

In a clean mixing container pour approximately enough powder to place in 20 minutes. Add water while slowly mixing with a margin trowel or Jiffy mixer. Vigorously mix to a smooth, lump-free consistency.

NOTE: Mechanical mixing with a portable drill and Jiffy mixer at low RPM (300-600) will produce a creamier (fluffy) and smoother consistency.

To mix an entire bag, use approximately 2.4 litres water with a 4.5 kg unit.



The Chemical Company

MasterTop[®] 505 (Formerly known as Mastertop P-5)

Installation

Steel trowel to desired thickness and finish, making sure product is properly keyed into subfloor substrate. Apply enough pressure to fill all voids and defects. Feather out where a seamless interface is desired. **MasterTop 505** may be applied from featheredge to 13 mm in thickness. **MasterTop 505** does not require a minimum thickness. Use the least amount of material to achieve the desired surface smoothness.

Pot life is 15 to 20 minutes at 21°C. Pot life will vary with ambient and substrate temperature. When setting in the pail, **MasterTop 505** may be re-tempered only through remixing. **DO NOT RETEMPER WITH ADDITIONAL WATER.**

Flooring Installation

Floor coverings may be installed as soon as the surface is sufficiently hard and is not damaged by application of the flooring adhesive. This can be in as little as 15 to 20 minutes for skimcoat applications depending on temperature, relative humidity, and subfloor conditions. Thicker sections will require more time.

Flooring and flooring adhesives that are sensitive to moisture can be installed after 16 hours. These include wood flooring, athletic flooring, and those that require epoxy or urethane adhesives.

MasterTop 505 is compatible with all adhesives that are compatible with concrete.

Embossing Filler

All existing felt-backed embossed sheet vinyl must be clean and free of any dressings and waxes. The sheet vinyl must be installed over a suitable

structurally sound substrate and be free of moisture and friable particles. Do not use over perimeter bonded sheet vinyl or cushion back flooring that is thicker than 2 mm thick. Consult BASF Technical Representative for specific installation recommendations.

ESTIMATING DATA

A 4.5 kg unit yields 9 litres and covers up to 30 square metres.

PACKAGING

MasterTop 505 is available in 4.5kg bags packed in resealable pails.

STORAGE / SHELF LIFE

Containers should be stored tightly sealed in a dry place. **MasterTop 505** has a shelf life of 6 months

PRECAUTIONS

Irritating to respiratory system and skin. Risk of serious damage to eyes. Keep out of reach of children. Do not breathe dust. Avoid contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. Wear suitable gloves and eye/face protection. If swallowed, seek medical advice immediately and show this container or label. For the full health and safety hazard information, first aid measures and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Material Safety Data Sheet (MSDS) from our office or our website.

ID# MasterTop 505 ANZ v1.1 0113

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.

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

ABN 62008437867
Construction Chemicals Division
11 Stanton Road Seven Hills, NSW 2147

Sales Offices:

Sydney, Brisbane, Melbourne,
Adelaide, Perth

Freecall: 1300 227 300

BASF Emergency Advice:

1800 803 440 within Australia (24hr)
0800 944 955 within New Zealand

+61 3 8855 6666 outside Australia & NZ

BASF New Zealand Ltd

45 William Pickering Drive, Albany, Auckland, Phone: +64 94147233 or Freecall 0800 334 877

BASF WEB SITES

www.basf-cc.com.au

www.basf-cc.co.nz

MasterTop[®] 510 (Formerly known as Mastertop P-10)

Self-levelling cementitious floor underlayment

DESCRIPTION

MasterTop 510 is a self-levelling, cementitious, non-structural, floor underlayment intended for use over poured in-situ and precast concrete floors which will be covered by carpet, vinyl, ceramic tiles or natural stone. Only water needs to be added at the job site to obtain the desired consistency for pumping or manual installation.

RECOMMENDED USES

- Finishing rough screeded floors
- Levelling up floors
- Refurbishing old floors
- Resurfacing internal rain damaged floors

MasterTop 510 is not suitable as a finished topping layer for external use.

FEATURES AND BENEFITS

- **Highly fluid and pumpable** - Fast installation
- **Rapid strength gain** - Return to service in 24 hours
- **Economical** - Low installed cost
- **Resistant to cracking** - Long life of the floor
- **Fast setting** - Ready for foot traffic after 3-4 hours to reduce time floor inaccessible
- **Multi-purpose** - Suitable for most carpet and tile adhesives

PROPERTIES

	1 day	28 days
Compressive Strength (AS 1478.2 App. A)	>12 MPa	>27 MPa
Flexural strength (ASTM C 348)	3 MPa	5 MPa
Working time @ 23°C	30 mins	
Setting times @ 23°C – Initial – Final	1 - 1.5 hours 1.5 – 2.0 hours	
Foot traffic @ 23°C & 50%RH	approx. 3 hours	
Drying shrinkage @ 7 days (BASF Test Method)	<300 microstrain	
Pull off bond strength	1.0 MPa	
VOC content Test method: SCAQMD method 304-91	14 grams/litre	

The performance data is typical and based upon controlled laboratory conditions. Actual performance on the job site may vary from these values based on actual site and test conditions.

Supply form	Powder
Water added per bag (20kg)	4.8 – 5.0 litres
Colour	Light Grey
Application temperature	5°C to 30°C
Toxicity	Non toxic

APPLICATION

Surface preparation

Remove all grease, oil, dust, residual curing compound, mould release agent or other contaminant that could impair adhesion. Laitance should preferably be removed by light shot blasting or grinding.

Employ mechanical cleaning methods and equipment. If sealers, paint, polymer coatings or curing compounds are present on concrete substrate, remove with mechanical shotblasting equipment.

Mastertop 510 is best applied where the ambient and substrate temperature is between 5°C and 30°C. Outside this range, please refer to your local BASF Technical Representative.

Voids and cracks (water pipes, holes, drainage pipes etc) should be filled to prevent seepage through to lower levels. Consult with your local BASF Technical Representative for product recommendations.

Note: Expansion joints should always be reflected through the toppings to avoid random cracking.

Priming

Apply **MasterTop 1600** (formerly Mastertop P Primer) to the dry substrate by roller, brush, low pressure spray or squeegee. On very porous or absorbent substrates, 2 coats may be required to effectively seal the substrate. Take care to avoid puddling of the primer. Allow to fully dry before application of **MasterTop 510**.

Mixing

Mechanical mixing is required for **MasterTop 510**.

For small areas, a slow speed stirrer of not more than 600 rpm such as a Festo RW3E mixer fitted with a cage paddle, is suitable.



The Chemical Company

MasterTop[®] 510 (Formerly known as Mastertop P-10)

Place the required quantity of water into the mixing vessel. Whilst mixing, slowly add the powder to the water then mix for a total of 4 minutes.

For improved efficiency and continuous application of **MasterTop 510**, it is recommended to use at least two mixing buckets.

For larger jobs, the use of a mechanical mixer/pump unit is recommended. Refer to your local BASF Technical Representative for suitable machines.

Method of use

Pour mixture over substrate or pump through a suitable pump to desired thickness.

Do not coax **MasterTop 510**; it will seek its own level. For hard to reach areas and touch-ups, a spreader may be used.

Whether pouring from a mixing vessel or using a mechanical mixer with an application hose, the discharge point should be approximately 200mm from the floor to prevent splashing and air entrapment.

Progress should be steady and even. Application should take place continuously into the preceding wet material to ensure even thickness and flow. Do not make new edges and 'fill in' the middle.

Edges may be feather edged using a steel trowel if required. Maximum thickness should be 30mm. If greater thickness is required, **MasterTop 510** should be mixed MasterTop F30 Aggregate on a 1:1 basis by weight and applied to a maximum of 80mm.

CURING

MasterTop 510 is self-curing, but as with all cementitious products, in hot weather take adequate measures to protect it from exposure to direct sunlight and hot winds. DO NOT use water spray or liquid membrane curing compounds as these may affect the surface texture or prevent bonding of subsequent adhesives used with floor coverings.

ESTIMATING DATA

One 20kg bag of **MasterTop 510** yields 12.2 litres

PACKAGING

MasterTop 510 is available in 20kg moisture resistant bags.

STORAGE / SHELF LIFE

Containers should be stored tightly sealed in a dry place.

MasterTop 510 has a shelf life of 12 months.

PRECAUTIONS

Irritating to eyes. Keep out of the reach of children. For the full health and safety hazard information, first aid measures and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Material Safety Data Sheet (MSDS) from our office or our website.

ID# MasterTop 510 ANZ v1.1 0113

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.

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 ABN 62008437867 Construction Chemicals Division 11 Stanton Road Seven Hills, NSW 2147	Sales Offices: Sydney, Brisbane, Melbourne, Adelaide, Perth Freecall: 1300 227 300	BASF Emergency Advice: 1800 803 440 within Australia (24hr) 0800 944 955 within New Zealand +61 3 8855 6666 outside Australia & NZ
BASF New Zealand Ltd 45 William Pickering Drive, Albany, Auckland, Phone: +64 94147233 or Freecall 0800 334 877 BASF WEB SITES www.basf-cc.com.au www.basf-cc.co.nz		

MasterTop[®] 515 (Formerly known as Mastertop P-15)

Ultra-smooth self-levelling cementitious floor underlayment

DESCRIPTION

MasterTop 515 is an ultra-smooth, self-levelling, cementitious, non-structural, floor underlayment intended for use over poured in situ and precast concrete floors which will be covered by carpet, vinyl, ceramic tiles or natural stone.

MasterTop 515 has been specifically formulated to achieve a fast setting, level and flat surface with maximum available flow time. Only water needs to be added at the job site to obtain the desired consistency for pumping or manual installation.

RECOMMENDED USES

- Finishing rough screeded floor
- Levelling up floors
- Refurbishing old floors
- Resurfacing internal rain damaged floors
- Internal floors above or below grade
- Not suitable for external wearing surface.

FEATURES AND BENEFITS

- **Highly fluid and pumpable** - Fast installation.
- **Rapid strength gain** - Next day installation of floor covering.
- **Low installed cost** - Economical for large areas
- **Resistant to cracking** - Long-term stability of the floor.
- **Ready for foot traffic after 3-4 hours** - Minimises time for restriction to floor surface
- **Compatible with most carpet and tile adhesives** - No restriction of use
- **Able to be feather-edged** - Complete levelling of floor.

PROPERTIES

	1 day	28 days
Compressive strength (Test Method: AS 1478.2-2005)	15 MPa	30 MPa
Flexural strength (Test Method: ASTM C 348)	4 MPa	6 MPa
Work time @ 23°C	30 mins	
Setting times @ 23°C – Initial	1 - 1½ hours	
– Final	1½ - 2½ hours	
VOC content Test method: SCAQMD method 304-91	13 grams/litre	

The performance data is typical and based upon controlled laboratory conditions. Actual performance on the job site may vary from these values based on actual site conditions.

Supply form	Powder
Water added per bag (20kg)	4.8 – 5.0 litres
Colour	Light Grey
Application temperature	5°C to 30°C
Toxicity	Non toxic

CURING

MasterTop 515 is self-curing, but as with all cementitious products in hot weather, take adequate measures to protect it from exposure to direct sunlight and hot winds. DO NOT use water spray or liquid membrane curing compounds as these may affect the surface texture or prevent bonding of subsequent adhesives used with floor coverings. Note: **MasterTop 515** may suffer a damaged, uneven surface if exposed to puddled water.

APPLICATION

Surface preparation

Remove all grease, oil, dust, residual curing compound, mould release agent or other contaminant that could impair adhesion. Laitance should preferably be removed by light shot blasting or grinding.

MasterTop 515 is best applied where the application temperature is between 5°C and 30°C. Outside this range, please refer to your local BASF Technical Representative.

Voids and cracks (water pipes, holes, drainage pipes etc) should be filled to prevent seepage through to lower levels. Consult with your local BASF Technical Representative for product recommendations.

Note: Expansion joints should always be reflected through the topping to avoid random cracking.



The Chemical Company

MasterTop[®] 515 (Formerly known as Mastertop P-15)

Mixing

Mechanical mixing is required for **MasterTop 515**. For small areas a slow speed stirrer of not more than 600 rpm such as a Festo RW3E mixer fitted with a cage paddle. Place the required water into the mixing vessel and slowly add powder to the water.

Whilst mixing, add powder then mix for a total of 4 minutes. For more efficient production it is recommended to use two mixing buckets for continuous supply of **MasterTop 515**.

Pour mixture over substrate or pump through a suitable pump over desired thickness. Do not coax **MasterTop 515**, will seek its own level. For hard to reach areas and touch-ups, a spreader may be used.

For larger jobs, the use of a mechanical mixer/pump unit is recommended. Refer to your local BASF Technical Representative for suitable machines.

Priming

Apply **MasterTop 1600** to the dry substrate by roller, brush, low-pressure spray or squeegee. On very porous or absorbent substrates 2 coats may be required to effectively seal the substrate. Take care to avoid puddling of the primer. Allow to dry before application of **MasterTop 515**.

Method of use

Progress should be steady and even with the application hose discharge point approximately 200mm from the floor. Application should take place continuously into the proceeding wet material to ensure even thickness and flow. Do not make new edges and 'fill in' the middle.

Edges may be feather edged using a steel trowel if required. Maximum thickness should be 30mm. If greater thickness required, **MasterTop 515** should be mixed with MASTERTOP F30 Aggregate on a 1:1 basis by weight and applied to a maximum of 30mm.

ESTIMATING DATA

One 20kg bag of **MasterTop 515** yields 12.2 litres.

PACKAGING

Available in 20kg moisture resistant bags.

SHELF LIFE

MasterTop 515 can be stored in original bags for 12 months if kept dry and at a moderate temperature. Store out of direct sunlight, clear of the ground on pallets protected from rainfall.

PRECAUTIONS

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 Material Safety Data Sheet (MSDS) from our office or our website

ID# Mastertop 615 ANZ v1.1 0113

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.

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

ABN 62008437867

Construction Chemicals Division

11 Stanton Road Seven Hills, NSW 2147

Sales Offices:

Sydney, Brisbane, Melbourne, Adelaide, Perth

Freecall: 1300 227 300

BASF Emergency Advice:

1800 803 440 within Australia (24hr)

0800 944 955 within New Zealand

BASF New Zealand Ltd

45 William Pickering Drive, Albany, Auckland, Phone: 0800 334 877

BASF WEB SITES

www.basf-cc.com.au

www.basf-cc.co.nz

MasterTop[®] 530 (Formerly known as Mastertop P-30)

Bulk fill self-smoothing cementitious floor underlayment

DESCRIPTION

MasterTop 530 is an economical, self-smoothing, cementitious, non-structural, floor underlayment intended for use over poured in-situ and precast concrete floors which will be covered by carpet, vinyl, ceramic tiles or natural stone and timber.

MasterTop 530 has been specifically formulated to achieve a fast setting surface with maximum available flow time. Only water needs to be added at the job site to obtain the desired consistency for pumping or manual installation.

RECOMMENDED USES

- Rough screeding prior to skim coating
- Levelling up floors
- Refurbishing old floors
- Resurfacing internal rain damaged floors
- Internal floors above or below grade
- Used in conjunction with **MasterTop[®] 515** to provide a flat blemish free surface

MasterTop 530 is not suitable as a finished topping layer or for external use.

FEATURES AND BENEFITS

- **Highly fluid and pumpable** - Fast installation.
- **Rapid strength gain** - Fast installation of floor leveller.
- **Economical** - Low installed cost.
- **Resistant to cracking** - Long service life.
- **Fast return to service** - Apply floor leveller after 3 hours.

PROPERTIES

	1 day	28 days
Compressive strength (Test Method: AS 1478.2-2005)	10MPa	25MPa
Flexural strength (Test Method: ASTM C 348)	4MPa	6MPa
Work time @ 23°C	30 mins	
Setting times @ 23°C – Initial – Final	1½ - 2hours 2 - 3 hours	
VOC content Test method: SCAQMD method 304-91	13grams/litre	

The performance data is typical and based upon controlled laboratory conditions. Actual

performance on the job site may vary from these values based on actual site and test conditions.

Supply form	Powder
Water added per bag	2.4 litres
Colour	Light Grey
Application temperature	5°C to 30°C
Toxicity	Non toxic

APPLICATION

Surface preparation

Remove all grease, oil, dust, residual curing compound, mould release agent or other contaminant that could impair adhesion. Laitance should preferably be removed by light shot blasting or grinding.

If necessary, employ mechanical cleaning methods and equipment. If sealers, paint, polymer coatings or curing compounds are present on concrete substrate, remove with mechanical shotblasting equipment. **MasterTop 530** is best applied where the application temperature is between 5°C and 30°C. Outside this range, please refer to your local BASF Technical Representative.

Voids and cracks (water pipes, holes, drainage pipes etc) should be filled with **MasterTop[®] 545** to prevent seepage through to lower levels.

Note: Expansion Joints should always be reflected through the topping to avoid random cracking.

Mixing

Mechanical mixing is required for **MasterTop 530**. For small areas a slow speed stirrer of not more than 600 rpm such as a Festo RW3E mixer fitted with a helical (e.g. Jiffy) paddle. Place the required water into the mixing vessel and slowly add powder to the water. Mixing time required is 4 minutes. For more efficient production it is recommended to use two mixing buckets for continuous supply of **MasterTop 530**.

Pour mixture over substrate or pump through a suitable pump to desired thickness. For hard to reach areas and touch-ups, a spreader may be used.



The Chemical Company

MasterTop[®] 530 (Formerly known as Mastertop P-30)

For larger jobs, the use of a mechanical mixer/pump unit is recommended. Refer to your local BASF Technical Representative for suitable machines.

Priming

Apply **MasterTop[®] 1600** (formerly Mastertop P Primer) to the dry substrate by roller, brush, low pressure spray or squeegee. On very porous or absorbent substrates 2 coats may be required to effectively seal the substrate. Take care to avoid puddling of the primer. Allow primer to dry before application of **MasterTop 530** to the substrate. If **MasterTop 515** is to be applied on **MasterTop 530** then the **MasterTop 530** should be primed with **MasterTop 1600**.

Method of use

Progress should be steady and even with the application hose discharge point -maximum of 200mm from the floor. Application should take place continuously into the preceding wet material to ensure even thickness and flow. Do not make new edges and 'fill in' the middle.

Maximum thickness should be 80mm whilst minimum thickness is 5 mm. If greater thickness required, two applications should be used.

CURING

MasterTop 530 is self-curing, but as with all cementitious products in hot weather, take adequate measures to protect it from exposure to direct sunlight and hot winds. DO NOT use water spray or liquid membrane curing compounds as these may affect the surface texture or prevent bonding of subsequent adhesives used with floor coverings. Note: **MasterTop 530** may suffer a damaged, uneven surface if exposed to puddled water.

ESTIMATING DATA

A 20kg bag of **MasterTop 530** mixed with 2.4 litres of water yields 10.0 litres (0.01m³).

PACKAGING

MasterTop 530 is available in 20kg moisture resistant bags.

STORAGE / SHELF LIFE

MasterTop 530 can be stored in original bags for 12 months if kept dry and at a moderate temperature.

PRECAUTIONS

Irritating to respiratory system and skin. Risk of serious damage to eyes. Keep out of reach of children. For the full health and safety hazard information, first aid measures and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Material Safety Data Sheet (MSDS) from our office or our website.

ID# MasterTop 530 ANZ v1.1 0113

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.

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 ABN 62008437867 Construction Chemicals Division 11 Stanton Road Seven Hills, NSW 2147	Sales Offices: Sydney, Brisbane, Melbourne, Adelaide, Perth Freecall: 1300 227 300	BASF Emergency Advice: 1800 803 440 within Australia (24hr) 0800 944 955 within New Zealand +61 3 8855 6666 outside Australia & NZ
BASF New Zealand Ltd 45 William Pickering Drive, Albany, Auckland, Phone: +64 94147233 or Freecall 0800 334 877 BASF WEB SITES www.basf-cc.com.au www.basf-cc.co.nz		

MasterTop[®] 545 (formerly known as Mastertop P-45)

Rapid setting cementitious floor underlayment

DESCRIPTION

MasterTop 545 is an economical, non-sag, cementitious, non-structural, floor patching material intended for use over poured in-situ and precast concrete floors which will be covered by a cementitious underlay.

MasterTop 545 has been specifically formulated to achieve fast setting mortar.

RECOMMENDED USES

- Filling holes and penetrations
- Levelling up floors
- Ramps
- Coves
- Internal floors above or below grade

FEATURES AND BENEFITS

- **Rapid strength gain** - fast installation of MasterTop 545 and subsequent toppings.
- **Simple installation** - trowellable
- **Fast continuation of underlayment application** - ready for foot traffic after 60 minutes
- **Fast Return to Service** - return to service in 24 hours
- **Multi-purpose** – compatible with most carpet and tile adhesives
- Note:
- **MasterTop 545** is not suitable as a finished topping layer for external use.

PROPERTIES

Supply form	Powder
Water added per bag (20kg)	4.5 - 4.7 litres
Colour	Grey
Application temperature (substrate and ambient)	5°C to 30°C
Toxicity	Non toxic
Compressive Strength (AS 1478.2 App A)	
1 Day	>20MPa
28 Days	>35MPa
Work time @ 23°C & 50% RH humidity	20 minutes
Foot traffic @ 23°C &	~1 hour

50%RH approx.	
Pull off bond strength @ 28 days	~1.0MPa
VOC content SCAQMD method 304-91	15grams/litre

The performance data is typical and based upon controlled laboratory conditions. Actual performance on the job site may vary from these values based on actual site conditions.

APPLICATION

Substrate condition

Substrate must be clean and free of oil, sealers, curing compounds, paint, polymer coatings, dust or other foreign (bond breaking) matter. Substrate profile should be 3-5mm roughness.

Remove all weak or broken pieces of concrete. If necessary, employ mechanical cleaning methods and equipment. If sealers, paint, polymer coatings or curing compounds are present on concrete substrate, remove with mechanical shotblasting equipment.

MasterTop 545 is best applied where the application temperature is between 5°C and 30°C. Outside this range, please refer to your local BASF Technical Representative.

Note: Joints should always be cut in toppings directly above those in the base slab to avoid random cracking.

Priming

Apply **MasterTop 1600** to the dry substrate by roller, brush, low pressure spray or squeegee. On very porous or absorbent substrates, two coats may be required to effectively seal the substrate. Take care to avoid puddling of the primer. Allow to fully dry before application of **MasterTop 545**.

MasterTop 545 can be applied from 0.5mm to 50mm layer thickness. For localised thicknesses exceeding 50mm in thickness add 30% by weight of **MasterTop F30 Filler** to **MasterTop 545**. When adding **MasterTop F30 Filler** the water content should be reduced slightly.

Floor levelling compounds can be placed over

MasterTop 545 without priming if **MasterTop 545** is still moist. If hardened it must be primed.



The Chemical Company

MasterTop[®] 545 (formerly known as Mastertop P-45)

Mixing

Mechanical mixing is required for **MasterTop 545**. For small areas, a slow speed stirrer of not more than 600 rpm such as a Festool RW 1000 mixer fitted with a helical (e.g. Jiffy) paddle, is suitable. Place the required water into the mixing vessel and slowly add powder to the water. Mix until lump free. **MasterTop 545** is self-curing, but as with all cementitious products, in hot weather take adequate measures to protect it from exposure to direct sunlight and air movement. DO NOT use water spray or liquid membrane curing compounds as these may affect the surface texture or prevent bonding of subsequent adhesives used with floor coverings.

ESTIMATING DATA

A 20kg bag of **MasterTop 545** mixed with 4.5 litres of water yields 12.6 litres (0.0126m³).

PACKAGING

MasterTop 545 available in 20kg bags.

SHELF LIFE

MasterTop 545 has a shelf life of 6 ±2 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall.

PRECAUTIONS

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 Material Safety Data Sheet (MSDS) from our office or our website.

ID#MasterTop545v2-0813

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.

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
ABN 62008437867
Construction Chemicals Division
11 Stanton Road Seven Hills, NSW 2147

Sales Offices:
Sydney, Brisbane, Melbourne, Adelaide,
Perth
Freecall: 1300 227 300

BASF Emergency Advice:
1800 803 440 within Australia (24hr)
0800 944 955 within New Zealand

BASF New Zealand Ltd
BASF WEB SITES

45 William Pickering Drive, Albany, Auckland, Phone: 0800 334 877
www.basf-cc.com.au www.basf-cc.co.nz