TFC 300

TECHNICAL DATA

The information contained within this Technical Data Sheet, details product description, health and safety hazard information of the product and how to safely handle and use the product in the workplace. Also refer to the MSDS for more information. Each user of this product should read the MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Demtech Australia Pty Ltd. Demtech Australia Pty Ltd makes no representation as to the completeness and accuracy of the data contained within this data sheet. It is the user's obligation to evaluate and use this product safely, and to comply with all relevant Federal, State and Local Government laws and regulations. Demtech Australia Pty Ltd shall not be responsible for loss, damage or injury resulting from reliance upon or failure to adhere to any recommendation or information contained herein, from abnormal use of the material, or any hazard inherent in the nature of the material.

DESCRIPTION

Cureflex™ TFC 300 is an innovative polyaspartic coating, specifically engineered to provide incredible resistance and durability without compromising on finish quality or customisation options.

PHYSICAL PROPERTIES

Composition	Two-part, 100% solids, polyaspartic
Volume solids (%)	100
Service temperature (°C)	Up to 100°C
Incidental contact (°C)	Up to 180°C
Mix ratio (by volume)	1:1
Curing time (hours)	Touch-dry 1 hour
Re-coating interval	1 to 18 hours (depending on tempurature)
Pot life (minutes)	20-30
Shelf life (months)	12
Odour	Very low odour
Tensile strength (MPa)	17
Elongation (%)	73
Hardness (Shore A/Shore D)	90/50
Tear strength (Kg/cm)	56
UV resistance	No chalking, no craking, no yellowing
Recommended relative humidity (%)	Between 20 and 90

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PREPARATION & APPLICATION

Suitability
- Concrete - must be fully cured for a min. of 28 days and requires grinding before application (60-80 grit min.).
- Particleboard and fibrous compressed sheeting - must be installed according to manufacturer's recommendations and may require sanding or scuffing before application (100-120 grit min.).
- Recoating exisiting coatings - requires grinding before application (150-180 grit min.).

Repairs to concrete surfaces will require the use of Cureflex™ Confix prior to application. Surface must be clean, dry and in sound condition. Remove all oil, dust, grease, loose particles and rust.

When applying Cureflex™ TFC300, it is recommended to use a lint-free roller cover with a fully supported roller cage. A brush can be used for cutting-in and tight spaces. Back rolling may be required to ensure even application and will help break any vapour lock (air pockets) that may have formed from filling pinholes.

Coverage
For typical applications 1L = 8-10m^2 approx. (500ml Part A + 500mL Part B). 1 x 4L kit (2L Part A + 2L Part B) will cover approx. 36m^2 which equates to 1 coat for a standard double car garage. A minimum of 2 coats is required. Quantity of material required will vary depending on surface porosity.

Mixing
Mix/stir Part B thoroughly before use. This is to ensure no colour pigment is settled at the bottom of the container. Then simply combine equal parts of Part A and Part B by volume, 1:1 mix ratio. Cureflex™ Xylene must be added to the mixed material for the first coat (no more than 3-5% of the volume). Use as needed throughout the rest of the application.

Mix mechanically on a low to medium speed for no more than 60-90 seconds. It is not recommended to mix more material than can be applied within the pot-life (20-30 minutes). After material is mixed, it should be poured out directly onto the surface to be coated. DO NOT use a roller tray. When using Cureflex™ TG50, the graded aggregate tends to settle. Work quickly to avoid an uneven coat and clumping.

Curing
Re-coating should occur within 1-2 hours. If applying clear coat over colour flake texture finish, this should be applied within 18 hours. Allow at least 4 hours before light foot traffic and 48 hours before return to service. Curing time is highly dependent on temperature and humidity. Use Cureflex™ Elastofill over any expansion joints once Cureflex™ TFC300 has fully cured.

Cleaning Up
Reusable tools should be cleaned carefully with Cureflex™ Xylene.

Shelf Life
Shelf life of sealed Cureflex™ TFC300 (Part A and Part B) in its original container is 12 months. Store in a cool and dry place for product integrity. Store in tightly sealed containers to protect from moisture and foreign materials. Moisture contamination will reduce shelf life.

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PREPARATION & APPLICATION Cont.

Graded Aggregate Finishing

Cureflex™ TG50 can be added to produce a hard wearing, non-slip finish. This effect provides increased traction yet remains easy to clean. It is recommended that Cureflex™ TG50 is applied as part of the final colour/clear coat only. Add 1-3% of the total amount of mixture (Part A + Part B) for the coat being applied. This is equivalent to 10-30g per litre of mixture. Add more or less to create the desired effect.

Cureflex™ TG50 should be added to Part B and thoroughly blended prior to mixing with Part A. Apply at a maximum wet film thickness of 0.1 mm for best results. If the wet film thickness is too high, the aggregate effect will be lost and the surface appearance will not be uniform. If a higher film build is required, apply multiple thin coats for best performance and a more uniform appearance.

Colour Flake Texture Finish

Colour flakes can be used in conjunction with the Cureflex™ TFC 300 to create an attractive and durable surface coating. It is recommended that the coatings contractor perform in-house testing and evaluation to determine the best technique for their specific application. For general use, refer to the following procedure.

Step 1
- Apply first Cureflex™ TFC 300 colour coat.
- Allow surface to cure tack free (approx. 1-2 hours).

Step 2
- Apply second coat of Cureflex™ TFC 300 colour coat.
- Immediately broadcast the colour flakes evenly over the surface to the desired amount/effect.
- Allow surface to cure (approx. 2-4 hours).

Step 3
- Gently remove excess colour flakes with a scaper or hard bristle broom.
- Sweep or vacuum surface so it is free of any loose colour flakes, dust or other particles.

Step 4
- Apply Cureflex™ TFC 300 clear coat (within 18hrs of the previous step).
- Apply additional coats if a smoother finish is desired (after approx. 1-2 hours).

These procedures are not intended as specific application instructions. The amount used and final appearance will depend on the specific project undertaken. Proper surface preparation, job-site conditions and adequate safety precautions are the responsibility of the coatings contractor.

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IMPORTANT NOTICES

Cureflex™ TFC 300 has been developed to protect and extend the longevity of the floor surface/substrate to which it has been applied, however as Demtech Australia Pty Ltd has no control over substrate preparation and Cureflex™ TFC 300 installation. When cured Cureflex™ TFC 300 provides a gloss finish which may vary subject to drying conditions, application techniques and final finished film thickness.

General
The information contained herein is based on present state of our knowledge and does not guarantee certain properties. Recipients of our products must take responsibility for observing laws and regulations. The information contained within is published free of charge in good faith, based on technical data that Demtech Australia Pty Ltd considers to be reliable.

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