







- Colloidal silica is the latest and best technology amongst the silicates.
- Minimal (usually zero) colour change with Forti-Col EG™
- Forti-Col EG™ contains a high concentration of a range of the smallest nano colloidal particles which means:
 - Deeper penetration
 - ~ Fast reactivity & curing.
 - ~ More reactive sites resulting in more complex structures & more SiO² inside the pores for greater density and better polish.
- Forti-Col EGTM makes concrete polishing much quicker as excess product on the surface does not form a hard, gummy film which takes hours to grind off.
- Formulated with advanced additives to optimize penetration
- Lower, non-caustic pH is safer for people & surfaces
- Does not break down under UV so lasts for decades, even outdoors
- Water-based, zero VOC
- Made at our factory in Melbourne, Australia.

Forti-Col™ Applications

Concrete Densifier for Concrete Polishing

- ~ Forti-Col EG[™] is a high concentration colloidal silica densifier with the smallest particle sizes – smaller than traditional silicates and other colloidal silica densifiers.
- Despite the small particle size and greater penetrating power, the high concentration of Forti-Col EG™ makes it ideal for EARLY densification after 30, to 100 grit metal grinding pads.
- Forti-Col EG[™] can be used for later densification after 50 to 400 grit resin pads, but Standard Forti-Col[™] more cost effective for later densification as concrete is less porous and doesn't usually require a super concentrated product.

Concrete Slab Curing and Anti-Dusting

- Forti-Col EG™ is highly concentrated which makes it ideal to treat fresh slabs to minimize water evaporation and optimize concrete curing.
- ~ Trowelled slabs should be trowelled with Forti-Trowel™ and then treated with Forti-Col EG™. Forti-Trowel™ is formulated with special colloidal particles with a delayed reaction time so it doesn't interfere with the initial reaction of the cement and hardening of the concrete, while improving trowelling and creating a tighter pore structure on the surface of the concrete.

How to Use

IMPORTANT: Always test on an inconspicuous area and allow to dry to check the result.

1. Slab Curing & Anti-Dusting Treatment:

- Ensure the concrete is dry inside before applying. If applying
 on freshly poured (green) concrete, give the concrete a
 minimum of 2 hours cure time to allow concrete to react
 and use up most of its water before applying.
- a. Apply when surface temperature is above 2°Celsius (36°F) and ideally below 32°Celsius (90°F).

- c. Apply generously with a pump sprayer, saturating the surface evenly so it remains glistening wet for at least 5 - 10 minutes. Avoid Pooling.
- d. If all the Forti-Col EG[™] fully penetrates within 10 minutes, apply a second coat.
- e. DO NOT dilute Forti-Col EG™ is a ready-to-use out of the container. Tap water can reduce its penetrating power.
- f. Application rate PER COAT: approximately 4 to 10m² / Litre. Application rate will be lower if applying to a trowelled concrete surface, particularly if trowelled using Forti-Trowel™.

2. Concrete Polishing:

- a. Forti-Col EG™ is the best choice for the earlier stages of densification when concrete is rough and pores are very open – after grinding with 30 to 80 grit metal-bond pads.
- Forti-Col EG[™] can also be used for later densification we recommend after 200 resin pads, but can be used after 50 to 200 grit resin pads. Standard Forti-Col[™] is more cost effective for later densification.
- c. Apply generously with a pump sprayer, saturating the surface evenly so it remains glistening wet for at least 5-10 minutes. Avoid Pooling.
- d. If all the Forti-Col EG $^{\text{TM}}$ penetrates within 10 minutes, apply a second coat.
- e. Application rate PER COAT: approximately 4 to 10 m² / Litre for early densification.
- f. DO NOT dilute Forti-Col EGTM is a ready-to-use out of the container. Tap water can reduce its penetrating power.

Precautions

- Causes skin irritation.
- Causes serious eye irritation.
- Do not get in eyes, on skin or on clothing.
- Wear protective gloves/protective clothing/eye protection/face protection.



First Aid

IF ON SKIN (or hair): Remove all contaminated clothing immediately. Rinse skin with water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Refer to Material Safety Data Sheet for more details.

For advice, immediately contact a doctor, ambulance or a Poison Information Centre:

Australia: 13 11 26 (Australia Wide)

USA: American Association of Poison Control Centres 1-800-222-1222

Canadian Poison Centres: Ontario (24/7) Telephone: 416-813-5900; Toll free: 1-800-268-9017

UK: England and Wales NHS 111 - dial 111; Scotland NHS 24 - dial 111; Republic of Ireland 01 809 2166

Accidents

Spillage: Take up mechanically or with absorbent material such as sand, earth or vermiculite.

Technical Data

- Colour: Clear to slightly opaque, colourless to light straw yellow liquid
- 20 L (5.3 gal) = 24.5 kg (53.9 lb)
- VOCs: Zero

Transport

TDG UN Status: This material is not regulated hazardous material for transportation.

Pack Sizes

20 L (5.3 gal)

Shelf Life and Storage Guidelines

Best within 2 years. Store away from direct sunlight.

Keep container tightly sealed, in a well-ventilated place, at 2 - 32 °C or 36 - 90 °F

Manufactured in Australia by Chemforce Pty Ltd

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