

POLYMER BONDING AGENT

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PRODUCT

TARGET® Polymer Bonding Agent is an aqueous emulsion of a polymer and chemical admixtures. It is designed for use as a bonding agent with concrete and cement-based products in interior or exterior applications.

TARGET Polymer Bonding Agent is also designed for use as a polymer modifier in mortars and concretes to develop increased tensile, flexural and bond strengths. The use of TARGET Polymer Bonding Agent in concretes and shotcretes also gives significant improvements in resistance to penetration by chlorides and de-icing salts.

After curing, TARGET Polymer Bonding Agent is not re-emulsifiable.

APPEARANCE

White, milky liquid

USES

TARGET Polymer Bonding Agent is designed for uses such as the following: Bonding slurry coats or primers applied to existing concrete before placing overlays or patches.

As an integral component of mixes such as:

- Concrete or mortar overlays, patches and levelling coats
- Shotcrete or gunite
- Bonding mortars such as tile setting mortars.
- Pointing mortars, stucco and Portland cement plaster.
- Parge coats for concrete.

PROCEDURES

A. BONDING SLURRY FOR REPAIR OF OVERLAY WORK

1. Prepare existing concrete surfaces by removing all traces of dirt, oil, grease, laitance and loose or deteriorated concrete. Sweep, vacuum clean, or use air jets to remove all loose material.
2. Saturate concrete with water for 24 hours before placing new material. Remove excess water from concrete surfaces before applying bonding slurry. A saturated surface-dry base concrete is ideal.
3. Prepare a bonding slurry by mixing either TARGET Fast Set Patching Concrete or a 1: 1 cement: fine sand blend with sufficient diluted

Product performance is affected by many factors, including storage, method and conditions of application and use. User testing is ESSENTIAL to determine suitability of product for intended method of application and use. Target's SOLE WARRANTY is that the product has been manufactured to specifications. No oral or written information or advice shall increase this warranty or create new warranties. Target's SOLE LIABILITY is to replace product proved defective. In no event shall Target be liable for any consequential, indirect or other damages whether arising from negligence or otherwise.

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TARGET Polymer Bonding Agent to give a thick creamy consistency. The diluted TARGET Polymer Bonding Agent should contain 1 part of volume of TARGET Polymer Bonding Agent to not more than 2 parts of volume of water.

4. Apply the bonding slurry to the saturated concrete, using a stiff bristle broom to ensure that the slurry is scrubbed onto the concrete surface and spread to form a layer not more than 3mm (1/8 inch) thick.
5. When mixed as described in Section A3 and applied at a thickness of 3mm (1/8 inch) the bonding slurry will cover approximately 8m² (87ft²) per 4 liter (1 US gallon) of undiluted TARGET Polymer Bonding Agent. Coverage rates will vary with the texture of the surface being coated.
6. Place the overlay or patching mix over the immediately after applying the slurry. Protect the slurry from drying before placing the overlay or patching mix.
7. Use standard moist curing or TARGET Cure & Seal to prevent drying of the overlay or patching mix, except in cases where TARGET Polymer Bonding Agent has been used as a component of the overlay or patching mix (see Section B).

NOTE: In some situations, the use of a bonding slurry might not be feasible. Consult Target Products Ltd. for advice on the use of liquid TARGET Polymer Bonding Agent in these applications.

B. INTEGRAL POLYMER MODIFIER FOR OVERLAYS, PATCHES & LEVELLING COATS

APPLICATION	DILUTION RATIO (parts by volume)	
	TARGET Polymer Bonding Agent	Water
Bonding mortars, tile mortars	1	2
Cement, plaster, parging	1	2
Pointing mortars, stucco, plaster	1	3
Overlays, toppings, patches, (over slurry coat)	1	3

1. Thoroughly blend the dry components of the mix before adding diluted

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TARGET Polymer Bonding Agent. Stir the mixing liquid before adding it to the concrete or mortar mix. Recommended dilution ratios are shown in the table. The dilution ratios given are suitable for most conditions. Where bonding or resistance to salt penetration is critical, consult TARGET Products Ltd. for advice on appropriate procedures.

2. Place the mix within 20 minutes of the start of mixing.
3. Avoid over-trowelling. For large areas use metal edged screeds.
4. Clean trowels or screeds with water frequently during placing and finishing.
5. Where rapid surface drying caused by air movement or high temperatures is likely to occur, protect the material from moisture loss by applying wet burlap or polythene sheeting.
6. Moist curing of mixes containing TARGET Polymer Bonding Agent is not essential or recommended, except as noted in Section 5 above.

C. POLYMER MODIFIED SHOTCRETE OR GUNITE

1. For dry process applications, use a pre-moisturizer to bring the moisture content of the shotcrete or gunite to approximately 4% by weight. Use undiluted TARGET Polymer Bonding Agent as the mixing liquid at the water ring.
2. For wet process applications based on saturated aggregates, use undiluted TARGET Polymer Bonding Agent as the mixing liquid. If dry aggregates are used in the mix, add sufficient water to bring the moisture content of the mix to approximately 4% by weight before adding undiluted TARGET Polymer Bonding Agent to obtain the required consistency.

CAUTION

- DO NOT allow TARGET Polymer Bonding Agent to freeze.
- DO NOT apply mixes containing TARGET Polymer Bonding Agent at temperatures below 5° C (41° F) or above 30° C (86° F). Protect from temperatures outside this range for at least 3 days after placing.
- Avoid over-mixing of material containing TARGET Polymer Bonding Agent or the use of high-speed mixers, which can entrain excessive quantities of air.
- When used as an integral component of mixes, TARGET Polymer Bonding Agent can cause the color of cured concrete to be slightly darker than unmodified concrete. Where color is of importance, a test area should be prepared and evaluated.

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