

▶ Description



TamCrete 40SBR is a liquid, water-based high solids styrene butadiene polymer latex with high bonding and water proofing characteristics. It is stable under wet alkaline conditions forming a reinforcing polymer matrix within cementitious mixes.

▶ Key Benefits

- Dramatically improves the adhesion / bonding of cementitious mixes
- Effective plasticiser, giving increased workability and cohesion. Also allows reductions in water content to improve durability and strength without loss of workability.
- Excellent waterproofing admixture which is alkali stable in cementitious mixtures
- Reduces shrinkage and cracking in repair and screeding mixes
- Good freeze / thaw resistance

▶ Typical Applications

- Bonding of new to old concrete
- Concrete repair
- Flooring mixes for screeding and patching
- Waterproof renders to tanks
- Tiling and setting mortars

▶ Technical Data

TamCrete 40SBR	
Appearance	White liquid
Solids Content	46 - 48%
Density at 20°C	1.05
Particle Size	0.20µm

All technical data stated herein is based on tests carried out under laboratory conditions.

▶ Application Guidelines

Surface Preparation

All surfaces must be thoroughly clean, free from laitance, loose material, dust, dirt, oil, grease and other contaminants and profiled to produce a receptive surface. The use of grinding or scabbling machines is recommended for large areas

Application Method

For Bond Coat / Primer:

A bond coat / primer should be used for all surfaces that are to have a TamSeal SBR waterproof render or screed applied.

Mix Design Bond Coat / Primer	
TamCrete 40SBR:	1:2 parts by weight
Cement	1:1 parts by volume
Coverage	1 - 1.2kg/m ²
Properties	
Consistency	Brushable viscous slurry
Bond Strength BS 6319: Part 4	28.6N/mm ²

Mix the cement into the TamCrete 40SBR until cohesive. Use a stiff brush to apply a thick coat to the wet surface. Work well into the surface. Application of concrete renders and mortars should take place while the bond coat is still tacky. **DO NOT** apply over dry bond coats; in this case hand scabble the dry coat before applying a further bond coat. Bond coats remain "tacky" for approximately 20 minutes depending on ambient temperature.

For Adhesive Mortars:

Adhesive bonding of slip bricks, tiles and mosaics. Grouting and pointing mortars with enhanced chemical resistance.

Mix Design Adhesive Mortars	
Cement	50kg
Sand Zone 3	125kg
TamCrete 40SBR	14 litres
Water	3 – 4 litres
Yield	0.1m ³

Properties	
Consistency	Trowellable mortar
Bond Strength BS 6319: Part 4	26.2N/mm ²
Compressive Strength BS 6319: Part 2	45.0N/mm ² @ 28 days
Flexural Strength BS6319: Part 3	8.2N/mm ² @ 28 days

Mix TamCrete 40SBR with water, then add sand and cement, mix until cohesive. Dampen / wet the prepared substrate and the back of the brick or tile. Apply the bond coat to the substrate, then over the WET bond coat apply a 5 – 6mm render with a notched float. Press the brick or tile into the render. The same mix should be used later for grouting.

For Floor Patching, Floor Screeds, Renders and Concrete Repairs:

Reinstatement of old floors, new floor screeds and general concrete repair and renders.

Mix Design			
Floor Patching / Floor Screeds / Concrete Repair			
	Thin Section 5 – 15mm	Thick Section 10 – 50mm	
Cement	50kg	50kg	
Coarse, Clean Sand	125kg	75kg	
Granite, 3-6mm chips	-	100kg	
TamCrete 40SBR	14 litres	9 litres	
Water	3 – 5 litres	5 – 10 litres	
Yield	0.1m ³	0.1m ³	
Properties			
Bond Strength BS 6319: Part 4 Mortar placed onto hardened concrete, bond, OPC Water	29.0N/mm ²	29.0N/mm ²	
Compressive Strength BS 6319: Part 2	1 day	8.2N/mm ²	20N/mm ²
	7 days	3.71N/mm ²	55N/mm ²
	28 days	49.8N/mm ²	68N/mm ²
Flexural Strength BS6319: Part 3	28 days	9N/mm ²	9.5N/mm ²
Total absorption	1.0%	0.9%	

Dampen / wet the prepared substrate, apply a bond coat and while still WET place the screed, repair or render mix using a wooden float to apply and compact. The screed mix is best placed at a semi-dry consistency, rammed into place. Finish with a steel float. Good curing is essential to prevent drying and cracking.

For Waterproof Renders / Screeds:

Sealing and waterproofing of water tanks, basements and interior/exterior tanking.

Mix Design	
Waterproof Render / Screed	
Sulphate Resisting Cement	50kg
Coarse, Clean Sand	125kg
TamSeal SBR	14 litres
Water	3 - 5 litres

After surface preparation and wetting, apply a brush coat of bonding mix horizontally. When almost touch dry, apply a further coat vertically. Each coat should be 10mm thick. Lightly scratch the surface of the second coat when nearly touch dry and leave for 24 hours to cure.

Apply a further bond coat while it is still wet, trowel on the render coat at a thickness up to 10mm. If additional render coats are required, apply at 1 - 2 hour intervals. Close up the final coat with a steel finishing float.

Thorough curing is essential on all exposed surfaces, particularly in dry or windy conditions. Curing methods such as water misting, polythene sheeting and similar techniques are suitable.

▶ Packaging

TamCrete 40SBR is supplied in 20kg and 200kg drums

▶ Storage

TamCrete 40SBR should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of 1 year can be expected.

▶ Health & Safety

TamCrete 40SBR should only be used as directed. We always recommend that the Health & Safety data sheet is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Health & Safety data sheet is available upon request from your local TAM International representative.