



Sovereign Hey'di Bonding Agent

Extensively used in the building industry in the modification of cementitious systems



Product Code
30615196

Description

Hey'di Bonding Agent is a dispersion polymer of carboxylated styrene butadiene copolymer. It has been extensively used in the building industry for many years in the modification of cementitious systems.

Form Supplied: Milky white liquid

Pack Sizes: 10 kg

Contains: 47% Styrene butadiene

Features

Incorporating HEY'DI Bonding Agent into cement-based systems gives numerous advantages, chiefly among these are:

- ✓ Greatly improved adhesion to a wide range of substrates including dense concrete, glass, steel, tiles, etc.
- ✓ Mixes may be applied in much thinner sections.
- ✓ Excellent resistance to water and protection from carbonation.
- ✓ A high level of resistance to salt permeation.
- ✓ Much improved toughness and flexibility.
- ✓ Reduced surface dusting of concrete.
- ✓ Greatly improved resistance to many chemicals.
- ✓ Reduced water:cement ratio for equivalent workability.
- ✓ Improved frost resistance.
- ✓ Reduction in cracking and shrinkage.
- ✓ Corrosion protection of steel.



PRIMER SYSTEMS

HEY'DI Bonding Agent can be used to control the suction of highly porous substrates and prevent dusting or as a bonding coat for use over glass, tiles, steel, concrete and brick or timber.

Primer Coat

HEY'DI Bonding Agent	1 Part
Water	5 Parts

Apply the primer to porous backgrounds. Render can then be applied to either wet or dry primer.

Sealer Coat

HEY'DI Bonding Agent	1 Part
Water	3 Parts

Apply to the rear and edges of timber before fitting and tiling to reduce moisture ingress. Do not prime the face to be tiled.

Bonding Coat

HEY'DI Bonding Agent	1 Part
Water	1 Parts
OPC	1 ½ Part

Mix the water and HEY'DI Bonding Agent and then slowly add the cement until a creamy mix is obtained. This can then be applied to surfaces with a brush to vastly improve the adhesion of subsequent coats. Render, screed etc., must be applied whilst the bonding coat is still tacky i.e. within 20 minutes. If the bonding does dry then reapply more before continuing. This mix should have a pot life of at least 1 hour. All tools and equipment used must be cleaned immediately after use, as the bonding coat is extremely difficult to remove once dry.

This bonding coat is also ideal for use in tiling onto difficult substrates such as glazed tiles, vinyl tiles, glass and metal. Again, the adhesive must be applied whilst the bonding coat is still tacky
HEY'DI Bonding Agent can also be added to cement based adhesive and grout to improve adhesion and wear properties. Dilute the Bonding Agent 1:3 with water and use as the gauging solution.

REPAIR SYSTEMS

Concrete Repairs

For small patch repairs of concrete and steel reinforced concrete using Hey'di Bonding Agent will provide:

- ✓ Reduced thermal stresses because the coefficient of thermal expansion is similar to that of unmodified concrete.
- ✓ Protection of background concrete from carbonation.
- ✓ Improved durability.
- ✓ Improved adhesion to the background.
- ✓ Corrosion protection of the steel.

Prepare any unsound concrete to give at least 5 mm depth of repair (10 mm over reinforcing). Wire brushing or shot blasting may be necessary to remove all signs of corrosion. Where corrosion is excessive, the opinion of a structural engineer should be sought.

Repair Mix

HEY'DI Bonding Agent	0.2 Parts
Moist Sand	2.5 Parts
OPC	1 Part

This is suitable for most repairs; however, where the final covering of steel is less than 15 mm or there are known chlorides in the concrete the amount of Hey'di Bonding Agent should be increased to 0.3 Parts. This level should also be used in extremely exposed conditions

RENDERS

External renderings commonly provide difficulties and failure rates can be high. Problems associated with external render are usually caused by poor bond to the background, cracking and low durability.

Incorporating Hey'di Bonding Agent in to the system, both as a bonding coat and in the render will overcome these problems.

As with all coating, substrate preparation is key. Clean back the substrate to sound and any loose mortar should be raked out and re-pointed.

Spatterdash Mix

HEY'DI Bonding Agent	1 Part
Coarse Sand	2 Parts
OPC	1 Part

Mix well, apply by dashing, ensure complete coverage to a thickness of 3 mm, and allow to dry. This mix can also be used for stippling.

External Render

HEY'DI Bonding Agent:Water	1:3
Sand	3 - 4
OPC	1

Scratch the first coat and allow to dry. Subsequent coats should be thinner/weaker.

SCREEDS

Incorporating Hey'di Bonding Agent into a floor screed will give enhanced qualities to the floor such as adhesion, flexural strength, water and abrasion resistance and allowing thinner sections to be laid.

When laying screeds the correct surface preparation is vital to success. All surface contamination must be removed such as paint, oil or grease. Mechanical preparation of the surface is ideal using such as shot blasting, scabbling and planning which should expose the aggregate and leave a stable surface. One point worth mentioning is that these techniques can sometimes leave a dust on the surface. If this is the case, this should be power washed off.

Apply a bonding coat and lay the screed whilst this is still tacky. The quantity of Hey'di Bonding Agent to add to the screed is dependent upon the thickness to be laid and the mix design. The following table gives some guidance. Apply a bonding coat and lay the screed whilst this is still tacky. The quantity of Hey'di Bonding Agent to add to the screed is dependent upon the thickness to be laid and the mix design. The following table gives some guidance.

Screeds	6-12mm	12-25mm	Up to 40mm
Cement	50kg	50kg	50kg
Sharp Sand	125kg	150kg	150kg
Bonding Agent	9kg	7kg	5kg
Yield	0.12m ³	0.12m ³	0.12m ³

Topping	Granite 12-25mm	Granite >25mm	Fine Concrete 25mm
Cement	50kg	50kg	50kg
Sharp Sand	75kg	150kg	100kg
Granite Chip	75kg	75kg	
Pea Shingle			100kg
Bonding Agent	9kg	5kg	5kg
Yield	0.12m ³	0.12m ³	0.12m ³

Storage: Between 5°C - 30°C.

Shelf Life: A minimum of 12 months in unopened containers.

HEALTH AND SAFETY

- ! Keep locked up and out of reach of children.
- ! In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
- ! Wear suitable protective gloves & eye/face protection.
- ! In case of accident or if you feel unwell seek medical advice immediately (show label where possible).



Health & safety information available on request



Important Disclaimer

The information given is in good faith based on experience and usage, however all recommendations are made without warranty or guarantee, since the conditions of use are beyond our control. All goods are sold in accordance with our Conditions of Sale, copies of which are available on request. Customers are advised that product, techniques and codes of practice are under constant review and changes occur without notice. Please ensure you have the latest updated information.



Sovereign

the gold standard in building products

Sovereign Support: 01229 870800 | www.sovchem.co.uk

FIND US HERE

