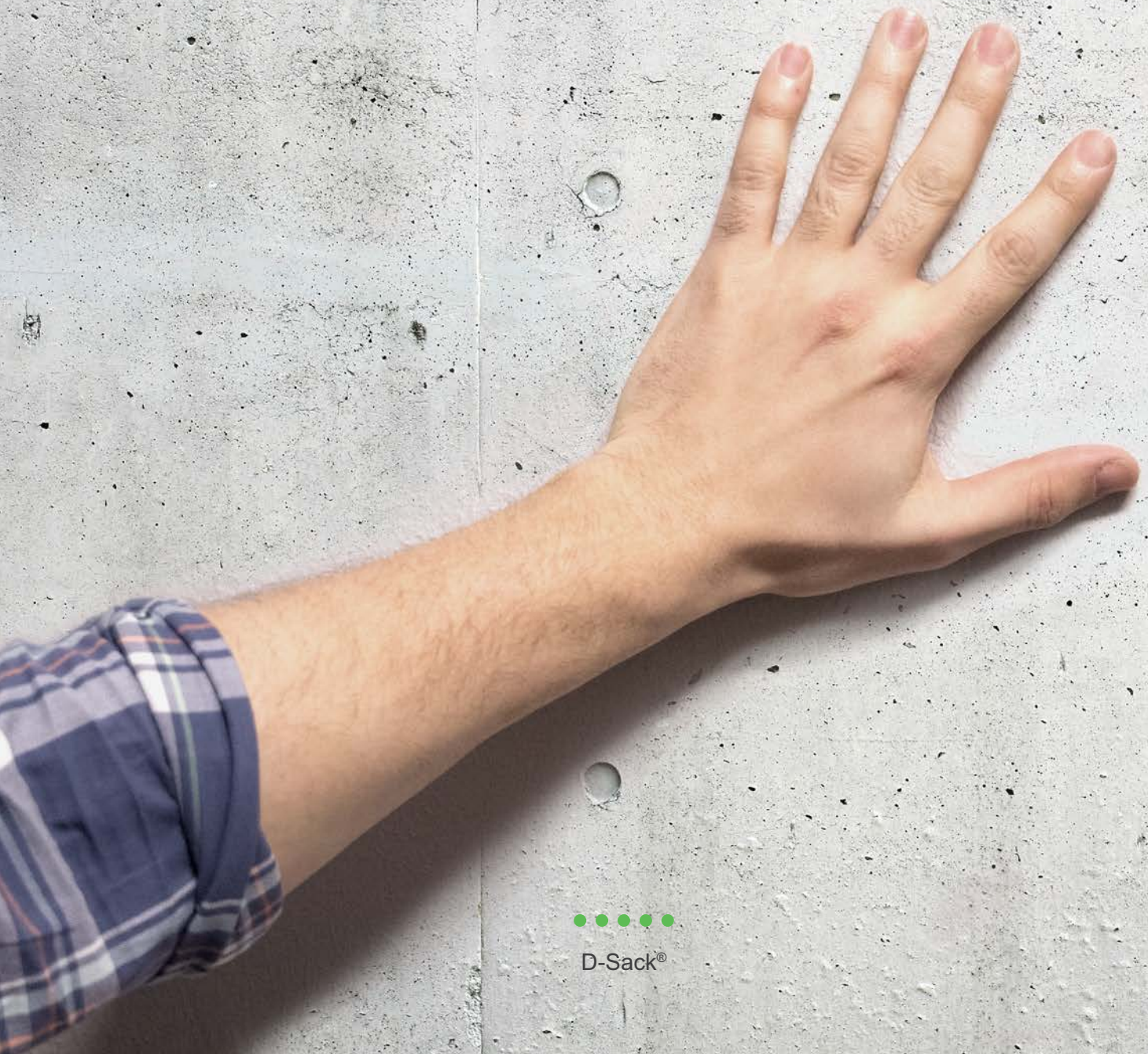




BILLERUDKORSNÄS

WHAT IF
packaging could
just disappear?



D-Sack®



Science. Not magic.

It sounds like magic – but it is really innovative science. You simply put D-Sack® in the mixer and it disappears, integrating with the mortar or concrete.

This revolutionary functionality is the result of years of research and is based on a two-ply barrier construction. It makes D-Sack resistant to moisture and ensures fast and easy filling, while making sure it disintegrates fully when exposed to mechanical action, aggregate and water in the cement mixer.

In the end, this results in the elimination of litter and packaging waste, zero cement loss and a cleaner, safer and healthier workplace. D-Sack is suitable for mixing both concrete and mortar and optimises the time needed for handling and mixing, with less costly waste disposal as an added benefit.

D-Sack is supplied by BillerudKorsnäs through a network of certified converting partners.

D-Sack® facts

D-Sack consists of two layers of white BillerudKorsnäs QuickFill® paper. This paper combines the traditional properties of high strength and high porosity with a patented barrier treatment that allows the sack to resist water vapour, but disintegrates when subjected to mechanical action, aggregate and water in the cement mixer.

- ② **The sack disintegrates into minute fibres that are bound into the concrete or mortar.**
- ② **Independent studies show that the presence of paper fibres in the concrete mix has no negative effect on concrete properties.**
- ② **Apart from the innovative ability to disintegrate under the right circumstances, the D-Sack is a high performing sack with a top deaeration construction for quick and easy filling.**
- ② **D-Sack was co-developed in close cooperation between BillerudKorsnäs and LafargeHolcim and validated by a third party.**
- ② **D-Sack was awarded the 2015 Pulp & Paper International Prize for Innovation in Sustainable Packaging**
- ② **D-Sack was selected by the Confederation of European Paper Industries (CEPI) as one of the pulp and paper industries most innovative products in 2015.**



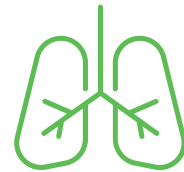
No time wasted

- simple and faster handling in mixing



No packaging wasted

- eliminates waste, transport and fees



No health wasted

- minimised dust and better ergonomics, no handling of hazardous waste



30% lower climate impact

D-Sack has 30% lower climate impact than conventional cement sacks. A life cycle assessment conducted by the IVL Swedish Environmental Research Institute, confirmed that D-Sack is a CO₂ sink in a hundred-year perspective because the carbon dioxide bound during tree growth and then incorporated into the paper, remains in the concrete structure.



A sack made from renewable paper



We challenge conventional packaging for a sustainable future

BillerudKorsnäs is a leading provider of strong, light, renewable and recyclable packaging material. We have eight production units in Sweden, Finland and the UK and 4,300 employees in over 17 countries. Together with brand owners, converters and packaging partners all over the world, we create smarter packaging solutions that increase profits, excite millions of consumers and contribute to a sustainable future for generations to come.

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