



rss

removable
smooth **surface**

by decal

the solutions glues
the problems unglues

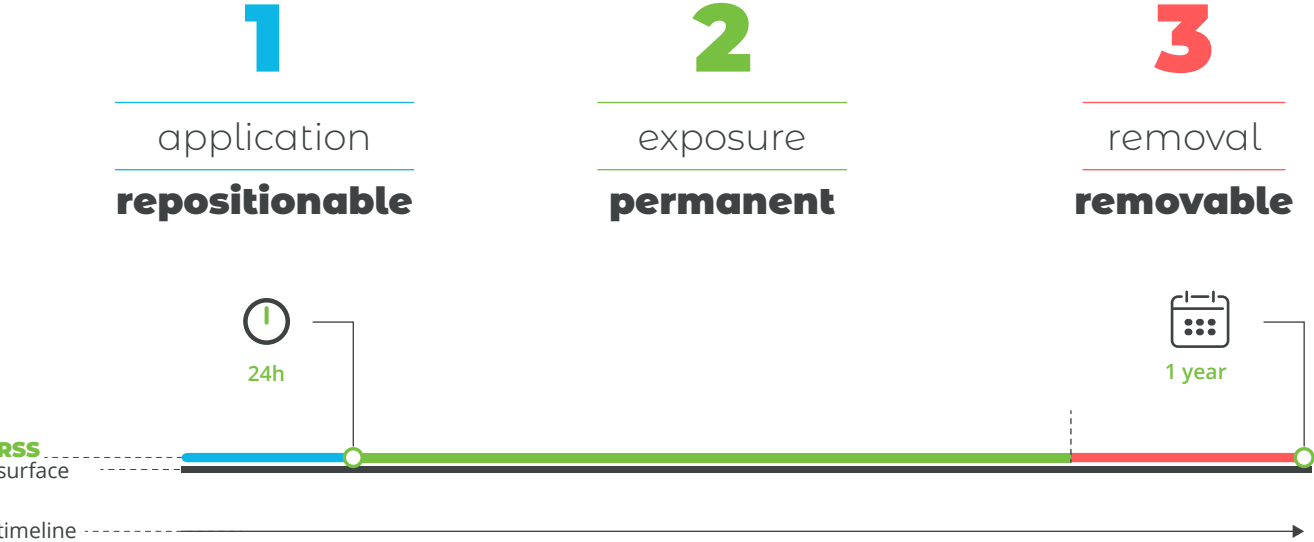
1

a all-in-one for Sign Graphics designs

The **Removable Smooth Surface** adhesive products were developed so the communication campaigns remain strong in all aspects. From a message that is intended to be transmitted, to the materials' **resistance, during exposure to various types of environments.**

These permanent product properties guarantee high adhesion. Target audience, short and medium-term campaigns, and from materials of non-porous metal and glass surfaces (flat and slightly curved).

We also know that communication as a fast paced and we **ensure the properties of a removable product**. Applying becomes easier, without air bubbles formation and with the possibility of repositioning.



Removing becomes faster as it leaves no residues.



Indoor messages (various applications)

Discover this decal's range that **combines the advantages of permanent and removable products in printing and lamination solutions for Sign Graphics applications.**

The materials do not shrink and the message is preserved both **indoor** and **outdoor**, whether it is fixed in public and private places or circulates in public transports and commercial vehicles.



Outdoor messages (taxis)



Outdoor messages (trucks)

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CHRISTMAS



all-in-one

We are not talking about a two-in-one, but of an all-in-one in this set of **monomeric** and **polymeric PVC films**, which includes the **PVC Free** ecological option. Creativity **adapted to UV LED, solvent and latex, printing technologies, with numerous finishing possibilities** and **guaranteed transparency**, for instance, in shop windows.

With decal's RSS adhesives, the solutions glues / the problems unglues. When and where you want.

2

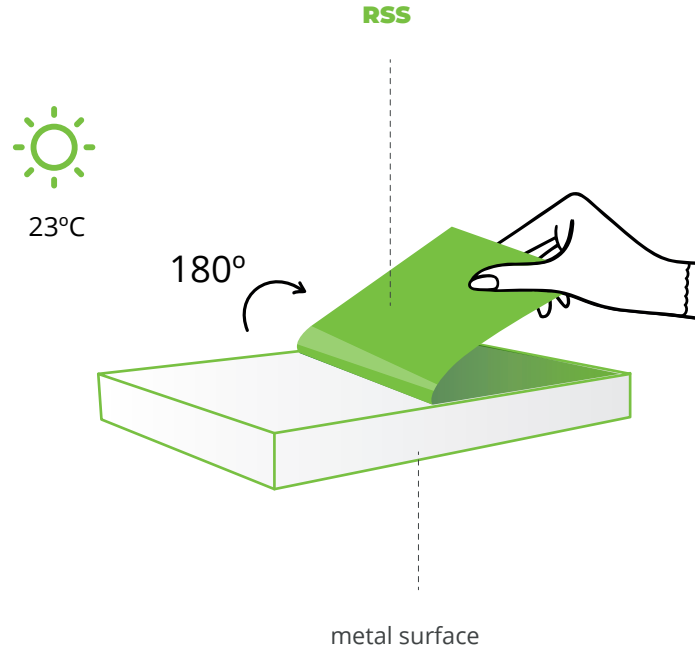
**easy
application
and repositionable**



Moving messages

Our products are easy to apply, highlighting the **absence of air bubble** formation and the need of no water when the option falls on the BF (Bubble Free) range.

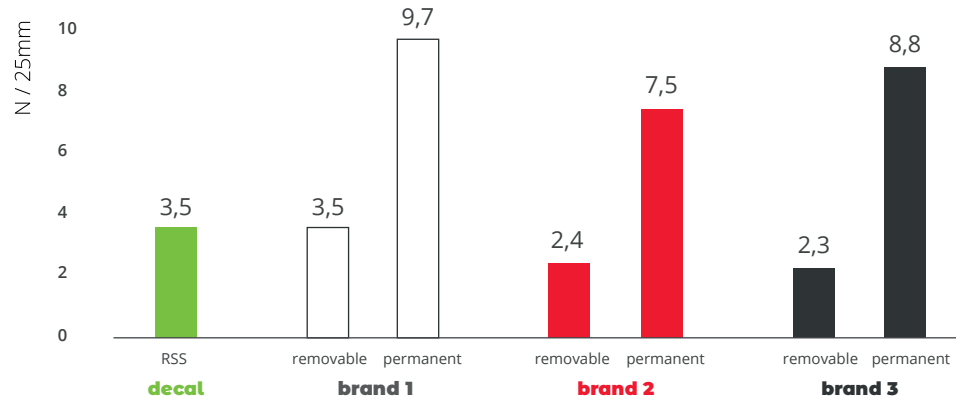
Two characteristics that, combined with the **possibility of repositioning the materials in the first 24 hours,** allow them to be easy to apply, even on more demanding surfaces.



low initial peel adhesion

According to **laboratory test** carried out on metal surfaces (180°) exposed to 23°C, **decal's RSS products** have a low peel adhesion, when compared to other brands. The values of the units per 25mm of product, in the first five minutes, prove that it has a similar behaviour of the removable products would have.

peel adhesion values after 5min



peel adhesion test on metal surfaces



Do you know what peel adhesion is?

It is the force required to remove materials from a surface after application.



Warning

Do not apply with water

RSS adhesive films must be **applied dry**, since the initial repositionable tack (peel adhesion) was developed to be applied without water, allowing **the material to be repositioned and the removal of air bubbles with ease**. The peel adhesion evolves in the 24 hours after the application, until it reaches the tack of a **permanent product** and maintains the characteristic of a **removable product without residues**. **If applied with water**, the RSS adhesive becomes permanent and leaves residues during its removal.

3

**resistant and
permanent
exposure**

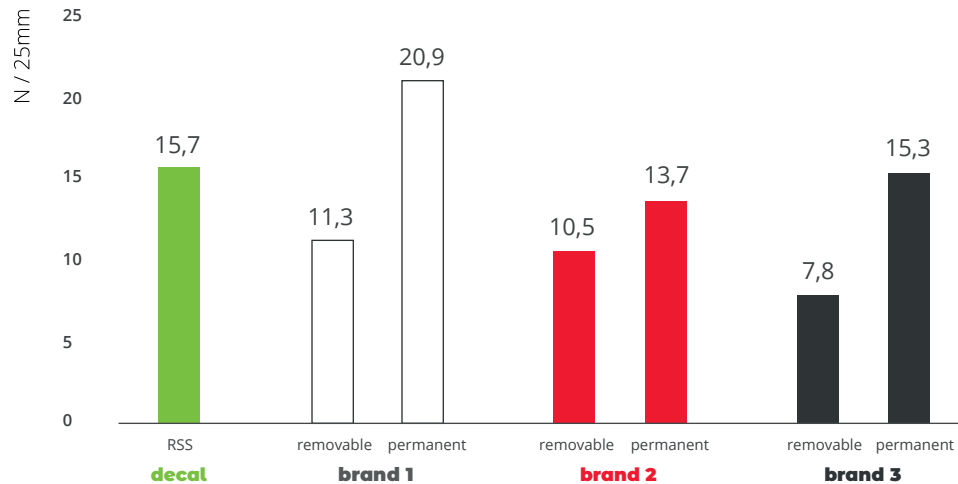


Temporal campaigns



After 24 hours of application, the same test shows that the peel adhesion values of decal's RSS adhesives increase, starting to match those of a permanent product.

peel adhesion values after 24h



peel adhesion test on metal surfaces



500h

During the application, the exposure period of **decal's RSS products have a high adhesion resistance and do not shrink**, as showed by the **shear and shrinkage test on glass surfaces**.

shrinkage values

	measurement
decal's monomeric RSS	0.28
brand 1	0.44
brand 2	0.35
brand 3	0.38

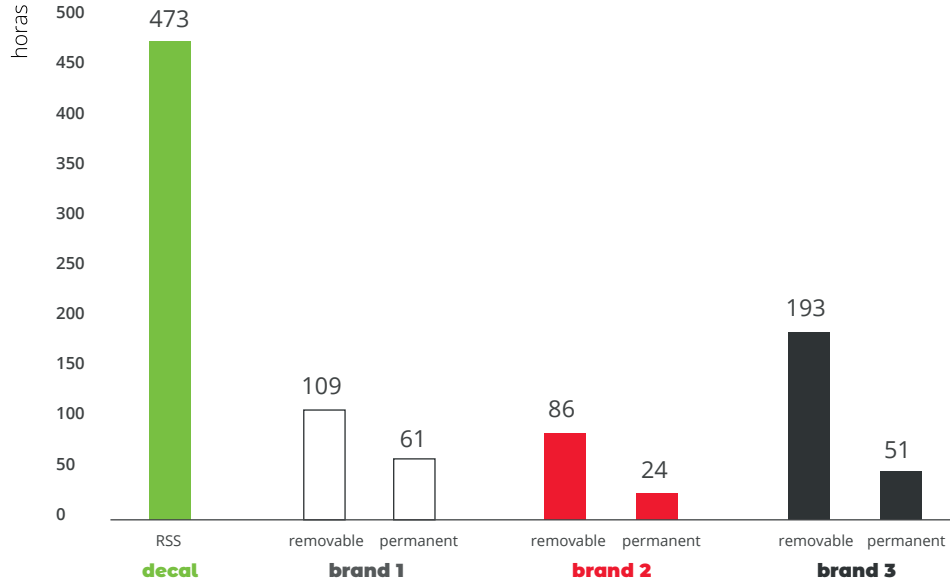
14-day shrinkage test at 60°C



1 kg

The **shear strength tests** measure the sample's behaviour, subject to a weight of 1kg, over time. The higher the **shear**, the greater the cohesion of the adhesive, making our products stand out again.

shear values



500-hour shear test

What is...



... shear?

It is related with the materials' adhesion resistance during the exposure time.



... shrinkage?

It refers to the shrinkage of materials motivated by the conditions to which they are subject.



... creep?

It is the tendency of materials to move or deform after application.

4

fast and clean removal



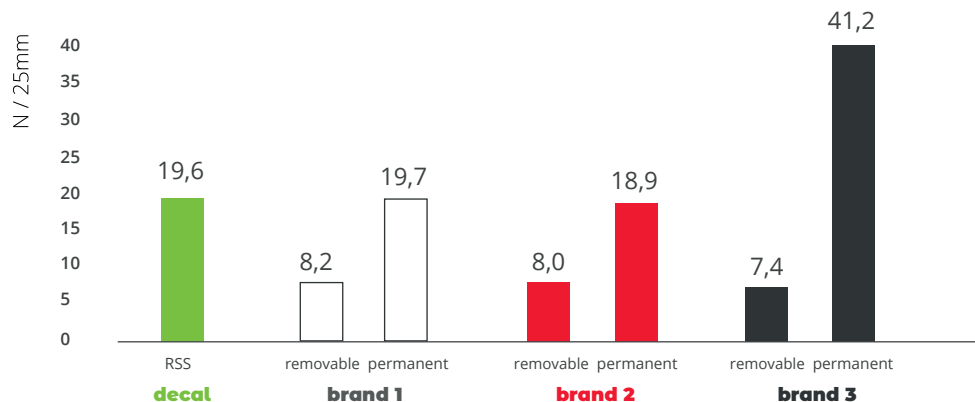
7 days



60°C

Decal's RSS products have the properties of a removable product when the time to change to a different campaign comes and are the **only ones on the market** that maintain this **property for 12 months**, which guarantees that they **do not leave residues**. Proof of it are the peel adhesion tests on PVCs printed with latex technology and applied to glass and metal surfaces (180°), exposed for seven days at 60°C.

peel adhesion values



peel adhesion test to PVCs applied to glass surfaces



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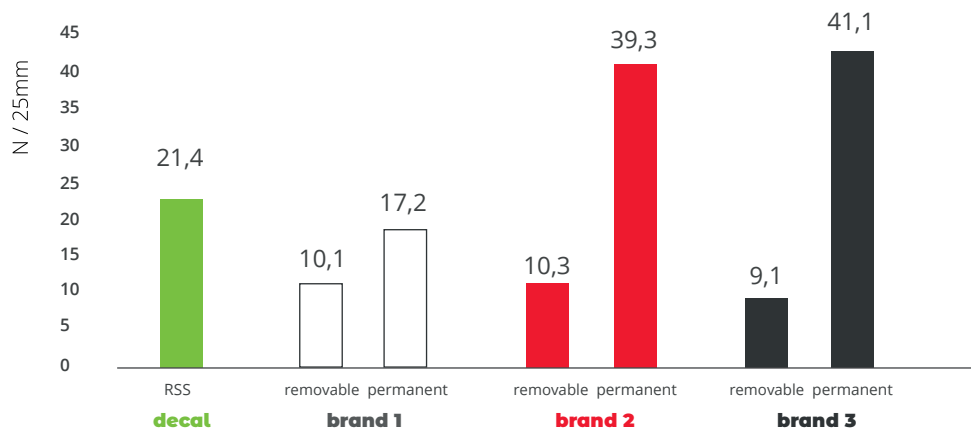
7 days



60°C

Peel adhesion values obtained by **decal's RSS range** on both surfaces are similar and, in some cases, are lower than those of permanent products from other brands. **Resulting on a speeded up of the removal of the application, making it faster and cleaner.**

peel adhesion values



peel adhesion test to PVCs applied to metal surfaces



Commercial vehicle fleet applications



sign graphics

monomeric vinyl

decal vinyl **R SS 100** *clear glossy*

decal vinyl **R SS 100 BO** *white glossy*

decal vinyl **R SS 100 BO** *white matte*

decal vinyl **R SS BF PE 100** *clear glossy*

decal vinyl **R SS BF 100 BO** *white glossy*

decal vinyl **R SS BF 100 BO** *white matte*

polymeric vinyl

decal polymeric vinyl **R SS 75** *clear glossy*

decal polymeric vinyl **R SS 75** *clear matte*

decal polymeric vinyl **R SS 75 BO** *white glossy*

decal polymeric vinyl **R SS 160** Floorprint FR *white*

PVC free

decal PVC free **R SS BF PE 65 UVP** *white glossy*

decal PVC free **R SS BF PE 65 UVP** *white matte*

decal PVC free **R SS BF PE 65 UVP** *clear glossy*



overlaminates
& protection film

microbial free

decal overlaminates microbial free R SS 80 clear glossy







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